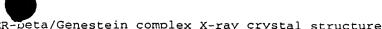
FIGURE 1

ER_alpha_LBD	307	ALSTTADOMVSATLDAEPPILYSEYDPTRPFSEASMMGLTNLADRELVHMINWAKRVPG
ER_beta_LBD	308	LDALSPEOLVLTLLEAEPPHVLISR-PSAPFTEASMMMSLTKLADKELVHMISWAKKIPG
ER_alpha_LBD	367	FVDLTLHDQVHLLECAWLEILMIGLVWRSMEHPVKLLFAPNLLLDRNOGKCVEGMVEIFD
ER_beta_LBD	367	FVELSLFDQVRLLESCWMEVLMMGLMWRSIDHPGKLIFAPDLVLDRDEGKCVEGILEIFD
ER_alpha_LBD	427	MLLATSSRFRMMNLQGEEFVCLKSILLINSGVYTFLSSTLKSLEEKDHIHRVEDKITDTE
ER_beta_LBD	427	MLLATTSRFRELKLOHKEYLCVKAMILLNSSMYPLVTATQDADSSRKLAH-LENAVTDAL
ER_alpha_LBD	487	IHLMAKAGLTLQQQHQRLAQLLLILSHIRHMSNKGMEHLYSMKCKNVVPLYDLLLEMLDA
ER_beta_LBD	486	VWVIAKSGISSQQQSMRLANLLMILSHVRHASNKGMEHLLNMKCKNVVPVYDLLLEMLNA
ER_alpha_LBD	547	HRD
ER_beta_LBD	546	HVD



Unit Cell: 53.486 85.207 107.065 90.00 90.00 90.00 Space Group: P212121

	atom Res.	×	У	z		
ATOM	type 1 N LEU A 311	0.971	-5.129	37.101	1.00 55.91	N
ATOM ATOM	2 CA LEU A 311 3 C LEU A 311	1.453 0.411	-4.204	36.024	1.00 52.91	С
ATOM	3 C LEU A 311 4 O LEU A 311	0.411	-3.151 -2.238	35.699 34.911	1.00 52.76 1.00 51.43	C 0
ATOM	5 CB LEU A 311 6 CG LEU A 311	1.933	-4.990	34.806	1.00 50.10	C
MOTA MOTA	6 CG LEU A 311 7 CD1 LEU A 311	3.007 3.070	-6.031 -7.107	35.117 34.063	1.00 51.90 1.00 55.02	C
ATOM ATOM	8 CD2 LEU A 311 9 N SER A 312	4.361 -0.779	-5.396	35.366	1.00 50.07	c c
ATOM	10 CA SER A 312	-1.856	-3.304 -2.323	36.277 36.154	1.00 48.17 1.00 45.76	N C
ATOM ATOM	11 C SER A 312 12 O SER A 312	-1.257	-1.024	36.704	1.00 42.54	C
ATOM	13 CB SER A 312	-0.515 -3.096	-1.023 -2.816	37.696 36.876	1.00 40.55 1.00 42.53	. O
ATOM	14 OG SER A 312 15 N PRO A 313	-3.636	-1.866	37.778	1.00 44.17	0
ATOM ATOM	15 N PRO A 313 16 CA PRO A 313	-1.543 -0.943	0.085 1.365	36.037 36.364	1.00 39.31 1.00 37.98	N C
MOTA	17 C PRO A 313	-0.958	1.765	37.812	1.00 38.63	c c
ATOM ATOM	18 O PRO A 313 19 CB PRO A 313	0.140 -1.582	1.992 2.348	38.375 35.397	1.00 38.34 1.00 35.68	. C
ATOM ATOM	20 CG PRO A 313 21 CD PRO A 313	-2.035	1.509 0.172	34.261	1.00 40.46	CCC
ATOM	22 N GLU A 314	-2.427 -2.111	1.866	34.851 38.474	1.00 37.34 1.00 30.67	N
ATOM ATOM	23 CA GLU A 314 24 C GLU A 314	-2.089	2.235	39.882	1.00 34.57	C
ATOM	24 C GLU A 314 25 O GLU A 314	-1.249 -0.591	1.270 1.744	40.711 41.639	1.00 30.99 1.00 32.77	C 0
ATOM ATOM	26 CB GLU A 314 27 CG GLU A 314	-3.517 -3.503	2.267 2.626	40.462	1.00 38.24	С
ATOM	28 CD GLU A 314	-4.887	3.065	41.948 42.419	1.00 44.67 1.00 50.70	C
ATOM ATOM	29 OE1 GLU A 314 30 OE2 GLU A 314	-5.88 4 -4.907	2.794 3.693	41.711 43.496	1.00 48.91 1.00 54.40	0
ATOM	31 N GLN A 315	-1.337	-0.035	40.456	1.00 34.40	O N
ATOM ATOM	32 CA GLN A 315 33 C GLN A 315	-0.578 0.937	-0.989 -0.913	41.250 41.010	1.00 37.11 1.00 36.55	C
ATOM	34 O GLN A 315	1.708	-0.982	41.951	1.00 33.12	0
ATOM ATOM	35 CB GLN A 315 36 CG GLN A 315	-1014 -2.386	-2.441 -2.674	40.956 41.588	1.00 41.80 1.00 51.16	c C
ATOM	37 CD GLN A 315	-3.004	-4.012	41.339	1.00 56.60	С
ATOM ATOM	38 OE1 GLN A 315 39 NE2 GLN A 315	-4.222 -2.210	-4.172 -5.021	41.485 40.973	1.00 60.96 1.00 61.33	O N
ATOM	40 N LEU A 316	1.294	-0.818	39.727	1.00 34.75	N
ATOM ATOM	41 CA LEU A 316 42 C LEU A 316	2.730 3.327	-0.721 0.491	39.378 40.058	1.00 32.58 1.00 29.66	C C
MOTA	43 O LEU A 316	4.414	0.401	40.654	1.00 29.13	0
ATOM ATOM	44 CB LEU A 316 45 CG LEU A 316	2.863 4.273	-0.742 -0.604	37.857 37.276	1.00 32.85 1.00 36.22	C C
MOTA	46 CD1 LEU A 316	5.272	-1.606	37.841	1.00 36.76	C
ATOM ATOM	47 CD2 LEU A 316 48 N VAL A 317	4.173 2.642	-0.851 1.640	35.774 40.063	1.00 32.29 1.00 29.47	C N
ATOM ATOM	49 CA VAL A 317 50 C VAL A 317	3.131	2.817 2.588	40.754	1.00 26.29	C
ATOM	50 C VAL A 317 51 O VAL A 317	3.263 4.239	2.996	42.253 42.865	1.00 33.46 1.00 28.60	C 0
ATOM ATOM	52 CB VAL A 317 53 CG1 VAL A 317	2.278 2.703	4.055 5.285	40.488 41.242	1.00 27.01	С
MOTA	54 CG2 VAL A 317	2.278	4.300	38.964	1.00 30.45 1.00 25.96	C C
ATOM ATOM	55 N LEU A 318 56 CA LEU A 318	2.236 2.340	1.951 1.635	42.850 44.267	1.00 30.90 1.00 32.73	N C
MOTA	57 C LEU A 318	3.532	0.696	44.534	1.00 25.10	С
ATOM ATOM	58 O LEU A 318 59 CB LEU A 318	4.120 1.051	0.933 1.062	45.581 44.813	1.00 28.81 1.00 33.80	O C
MOTA	60 CG LEU A 318	0.983	0.754	46.309	1.00 40.30	C
ATOM ATOM	61 CD1 LEU A 318 62 CD2 LEU A 318	1.574 -0.488	1.849 0.535	47.191 46.684	1.00 35.41 1.00 40.42	C
ATOM	63 N THR A 319	3.845	-0.268	43.727	1.00 26.05	N
ATOM ATOM	64 CA THR A 319 65 C THR A 319	4.970 6.274	-1.153 -0.340	43.868 43.734	1.00 33.78 1.00 32.10	C C
ATOM	66 O THR A 319	7.212	-0.552	44.485	1.00 26.69	0
ATOM ATOM	67 CB THR A 319 68 OG1 THR A 319	5.011 3.894	-2.308 -3.206	42.863 43.075	1.00 32.57 1.00 41.02	C
MOTA	69 CG2 THR A 319	6,273	-3.163	43.004	1.00 34.97	С
MOTA	70 N LEU A 320	6.295	0.635	42.823	1.00 33.55	N

ATOM 123 N HIS A 327 16.899 6.282 52.788 1.00 38.59 ATOM 124 CA HIS A 327 17.847 7.406 52.678 1.00 40.75 ATOM 125 C HIS A 327 19.230 6.940 53.079 1.00 36.06 ATOM 126 O HIS A 327 19.395 6.138 54.018 1.00 32.53 ATOM 127 CB HIS A 327 17.300 8.555 53.528 1.00 45.73 ATOM 128 CG HIS A 327 15.987 9.043 52.982 1.00 53.44 ATOM 129 ND1 HIS A 327 14.957 8.186 52.665 1.00 59.65 ATOM 130 CD2 HIS A 327 15.530 10.278 52.688 1.00 56.60 ATOM 131 CE1 HIS A 327 13.920 8.860 52.202 1.00 59.43 ATOM 132 NE2 HIS A 327 14.244 10.137 52.209 1.00 60.32 ATOM 133 N VAL A 328 20.282 7.369 52.404 1.00 32.13 ATOM 134 CA VAL A 328 21.657 6.980 52.751 1.00 36.60 ATOM 135 C VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 136 O VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 137 CB VAL A 328 22.291 9.188 53.071 1.00 51.71 ATOM 137 CB VAL A 328 22.619 6.823 51.549 1.00 35.11 ATOM 139 CG2 VAL A 328 22.619 6.823 51.549 1.00 35.11 ATOM 139 CG2 VAL A 328 22.619 6.823 51.549 1.00 35.11 ATOM 130 CD2 VAL A 328 22.189 5.603 50.768 1.00 31.62 ATOM 140 N LEU A 329 23.338 8.705 55.672 1.00 49.06 ATOM 141 CA LEU A 329 23.338 8.705 55.672 1.00 49.06 ATOM 142 C LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 144 CB LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 145 CG LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60 ATOM 147 CD2 LEU A 329 20.781 9.337 57.445 1.00 56.44	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	72345678901234567890123456789012345678901222 110007890112345678901222	C O C C C C C C C C C C C C C C C C C C	D A 326 D A 326	7.508 7.6768.733 7.4231 7.42918.6582 7.22160 5.3113 6.727.85.3311 3.7296 5.3311 3.7296 5.3311 3.7296 5.3311 3.7296 4.6085 9.1557 112.1960 111.5927 112.1960 112.1960 113.1960 114.1960 115.1960 116.1960	3.076 2.236	53.107 52.249	1.00 37.47 1.00 39.51
ATOM 119 O PRO A 326 17.971 5.196 51.130 1.00 36.32 ATOM 120 CB PRO A 326 16.739 3.076 53.107 1.00 37.47 ATOM 121 CG PRO A 326 17.626 2.236 52.249 1.00 39.51 ATOM 122 CD PRO A 326 16.851 2.079 50.939 1.00 36.10 ATOM 123 N HIS A 327 16.899 6.282 52.788 1.00 38.59 ATOM 124 CA HIS A 327 17.847 7.406 52.678 1.00 40.75 ATOM 125 C HIS A 327 19.230 6.940 53.079 1.00 36.06 ATOM 126 O HIS A 327 19.230 6.940 53.079 1.00 36.06 ATOM 126 O HIS A 327 17.300 8.555 53.528 1.00 45.73 ATOM 127 CB HIS A 327 17.300 8.555 53.528 1.00 45.73 ATOM 128 CG HIS A 327 14.957 8.186 52.665 1.00 53.44 ATOM 129 ND1 HIS A 327 14.957 8.186 52.665 1.00 59.65 ATOM 130 CD2 HIS A 327 15.530 10.278 52.688 1.00 56.60 ATOM 131 CE1 HIS A 327 13.920 8.860 52.202 1.00 59.43 ATOM 131 CE1 HIS A 327 14.244 10.137 52.209 1.00 60.32 ATOM 133 N VAL A 328 20.282 7.369 52.404 1.00 32.13 ATOM 134 CA VAL A 328 21.657 6.980 52.751 1.00 36.60 ATOM 135 C VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 137 CB VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 137 CB VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 137 CB VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 137 CB VAL A 328 22.289 5.603 50.768 1.00 35.11 ATOM 138 CG1 VAL A 328 22.289 5.603 50.768 1.00 31.62 ATOM 140 N LEU A 329 22.788 7.715 54.770 1.00 44.76 ATOM 140 N LEU A 329 22.788 7.715 54.770 1.00 44.76 ATOM 141 CA LEU A 329 23.338 8.705 55.672 1.00 47.49 ATOM 143 O LEU A 329 23.338 8.705 55.672 1.00 47.49 ATOM 144 CB LEU A 329 23.338 8.705 55.662 1.00 47.49 ATOM 144 CB LEU A 329 23.308 8.250 57.121 1.00 55.29 ATOM 145 CG LEU A 329 23.008 8.250 57.121 1.00 55.29 ATOM 146 CD1 LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	ATOM ATOM ATOM	116 117	CD PRO	O A 325 O A 326 O A 326	14.939 16.058 16.116	3.733 3.331 4.073	46.305 50.879 52.109	1.00 22.13 1.00 33.46 1.00 36.27
ATOM 121 CG PRO A 326 17.626 2.236 52.249 1.00 39.51 ATOM 122 CD PRO A 326 16.851 2.079 50.939 1.00 36.10 ATOM 123 N HIS A 327 16.899 6.282 52.788 1.00 38.59 ATOM 124 CA HIS A 327 17.847 7.406 52.678 1.00 40.75 ATOM 125 C HIS A 327 19.230 6.940 53.079 1.00 36.06 ATOM 126 O HIS A 327 19.395 6.138 54.018 1.00 32.53 ATOM 127 CB HIS A 327 17.300 8.555 53.528 1.00 45.73 ATOM 128 CG HIS A 327 17.300 8.555 53.528 1.00 45.73 ATOM 129 ND1 HIS A 327 15.987 9.043 52.982 1.00 53.44 ATOM 129 ND1 HIS A 327 14.957 8.186 52.665 1.00 59.65 ATOM 130 CD2 HIS A 327 15.530 10.278 52.688 1.00 56.60 ATOM 131 CE1 HIS A 327 13.920 8.860 52.202 1.00 59.43 ATOM 132 NE2 HIS A 327 14.244 10.137 52.209 1.00 60.32 ATOM 133 N VAL A 328 20.282 7.369 52.404 1.00 32.13 ATOM 134 CA VAL A 328 20.282 7.369 52.404 1.00 32.13 ATOM 135 C VAL A 328 21.657 6.980 52.751 1.00 36.60 ATOM 136 O VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 137 CB VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 137 CB VAL A 328 22.291 9.188 53.071 1.00 51.71 ATOM 137 CB VAL A 328 22.291 9.188 53.071 1.00 51.71 ATOM 137 CB VAL A 328 22.619 6.823 51.549 1.00 35.11 ATOM 138 CG1 VAL A 328 22.619 6.823 51.549 1.00 35.11 ATOM 139 CG2 VAL A 328 22.189 5.603 50.768 1.00 43.74 ATOM 140 N LEU A 329 23.338 8.705 55.672 1.00 44.76 ATOM 141 CA LEU A 329 23.338 8.705 55.662 1.00 47.49 ATOM 144 CB LEU A 329 23.338 8.942 55.562 1.00 47.49 ATOM 143 O LEU A 329 23.338 8.705 55.672 1.00 47.49 ATOM 144 CB LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 144 CB LEU A 329 23.308 8.250 57.21 1.00 55.29 ATOM 144 CB LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 145 CG LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	ATOM	119	O PRO	D A 326	17.971	5.196	51.130	1.00 36.32
ATOM 124 CA HIS A 327 17.847 7.406 52.678 1.00 40.75 ATOM 125 C HIS A 327 19.230 6.940 53.079 1.00 36.06 ATOM 126 O HIS A 327 19.395 6.138 54.018 1.00 32.53 ATOM 127 CB HIS A 327 17.300 8.555 53.528 1.00 45.73 ATOM 128 CG HIS A 327 15.987 9.043 52.982 1.00 53.44 ATOM 129 ND1 HIS A 327 14.957 8.186 52.665 1.00 59.65 ATOM 130 CD2 HIS A 327 15.530 10.278 52.688 1.00 56.60 ATOM 131 CE1 HIS A 327 15.530 10.278 52.688 1.00 56.60 ATOM 131 CE1 HIS A 327 14.244 10.137 52.209 1.00 60.32 ATOM 133 N VAL A 328 20.282 7.369 52.404 1.00 32.13 ATOM 134 CA VAL A 328 21.657 6.980 52.751 1.00 36.60 ATOM 135 C VAL A 328 21.657 6.980 52.751 1.00 36.60 ATOM 136 O VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 137 CB VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 138 CG1 VAL A 328 22.291 9.188 53.071 1.00 51.71 ATOM 138 CG1 VAL A 328 22.291 9.188 53.071 1.00 51.71 ATOM 139 CG2 VAL A 328 22.189 5.603 50.768 1.00 34.13 ATOM 140 N LEU A 329 22.788 7.715 54.770 1.00 44.76 ATOM 141 CA LEU A 329 23.338 8.705 55.672 1.00 49.06 ATOM 141 CA LEU A 329 23.338 8.705 55.672 1.00 49.06 ATOM 144 CB LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 144 CB LEU A 329 23.008 8.250 57.121 1.00 51.57 ATOM 144 CB LEU A 329 23.008 8.250 57.121 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	MOTA MOTA	121 122	CG PRO	D A 326	17.626 16.851	2.236 2.079	52.249 50.939	1.00 39.51 1.00 36.10
ATOM 126 O HIS A 327 19.395 6.138 54.018 1.00 32.53 ATOM 127 CB HIS A 327 17.300 8.555 53.528 1.00 45.73 ATOM 128 CG HIS A 327 15.987 9.043 52.982 1.00 53.44 ATOM 129 ND1 HIS A 327 14.957 8.186 52.665 1.00 59.65 ATOM 130 CD2 HIS A 327 15.530 10.278 52.688 1.00 56.60 ATOM 131 CE1 HIS A 327 13.920 8.860 52.202 1.00 59.43 ATOM 132 NE2 HIS A 327 14.244 10.137 52.209 1.00 60.32 ATOM 133 N VAL A 328 20.282 7.369 52.404 1.00 32.13 ATOM 134 CA VAL A 328 20.282 7.369 52.404 1.00 32.13 ATOM 135 C VAL A 328 21.657 6.980 52.751 1.00 36.60 ATOM 136 CO VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 136 O VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 137 CB VAL A 328 22.291 9.188 53.071 1.00 51.71 ATOM 138 CG1 VAL A 328 22.619 6.823 51.549 1.00 35.11 ATOM 139 CG2 VAL A 328 24.068 6.722 52.020 1.00 34.13 ATOM 140 N LEU A 329 22.788 7.715 54.770 1.00 44.76 ATOM 141 CA LEU A 329 22.788 7.715 54.770 1.00 44.76 ATOM 141 CA LEU A 329 23.338 8.705 55.672 1.00 49.06 ATOM 142 C LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 144 CB LEU A 329 25.601 8.211 56.188 1.00 53.01 ATOM 144 CB LEU A 329 25.601 8.211 56.188 1.00 53.01 ATOM 145 CG LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	ATOM	124	CA HI	S A 327	17.847	7.406	52.678	1.00 40.75
ATOM 130 CD2 HIS A 327 15.530 10.278 52.688 1.00 59.65 ATOM 131 CE1 HIS A 327 13.920 8.860 52.202 1.00 59.43 ATOM 132 NE2 HIS A 327 14.244 10.137 52.209 1.00 60.32 ATOM 133 N VAL A 328 20.282 7.369 52.404 1.00 32.13 ATOM 134 CA VAL A 328 21.657 6.980 52.751 1.00 36.60 ATOM 135 C VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 136 O VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 137 CB VAL A 328 22.291 9.188 53.071 1.00 51.71 ATOM 138 CG1 VAL A 328 22.619 6.823 51.549 1.00 35.11 ATOM 139 CG2 VAL A 328 24.068 6.722 52.020 1.00 34.13 ATOM 139 CG2 VAL A 328 22.189 5.603 50.768 1.00 31.62 ATOM 140 N LEU A 329 22.788 7.715 54.770 1.00 44.76 ATOM 141 CA LEU A 329 23.338 8.705 55.672 1.00 49.06 ATOM 142 C LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 143 O LEU A 329 25.601 8.211 56.188 1.00 53.01 ATOM 144 CB LEU A 329 25.601 8.211 56.188 1.00 53.01 ATOM 144 CB LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 145 CG LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	MOTA MOTA	126 127	O HIS	S A 327 S A 327	19.395 17.300	6.138 8.555	54.018 53.528	1.00 32.53 1.00 45.73
ATOM 131 CE1 HIS A 327 13.920 8.860 52.202 1.00 59.43 ATOM 132 NE2 HIS A 327 14.244 10.137 52.209 1.00 60.32 ATOM 133 N VAL A 328 20.282 7.369 52.404 1.00 32.13 ATOM 134 CA VAL A 328 21.657 6.980 52.751 1.00 36.60 ATOM 135 C VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 136 O VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 137 CB VAL A 328 22.291 9.188 53.071 1.00 51.71 ATOM 138 CG1 VAL A 328 22.619 6.823 51.549 1.00 35.11 ATOM 138 CG1 VAL A 328 24.068 6.722 52.020 1.00 34.13 ATOM 139 CG2 VAL A 328 22.189 5.603 50.768 1.00 31.62 ATOM 140 N LEU A 329 22.788 7.715 54.770 1.00 44.76 ATOM 141 CA LEU A 329 23.338 8.705 55.672 1.00 49.06 ATOM 142 C LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 143 O LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 144 CB LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 144 CB LEU A 329 23.008 8.250 57.121 1.00 51.57 ATOM 145 CG LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	MOTA	129	ND1 HIS	S A 327	14.957	8.186	52.665	1.00 59.65
ATOM 134 CA VAL A 328 21.657 6.980 52.751 1.00 36.60 ATOM 135 C VAL A 328 22.288 8.070 53.608 1.00 43.74 ATOM 136 O VAL A 328 22.291 9.188 53.071 1.00 51.71 ATOM 137 CB VAL A 328 22.619 6.823 51.549 1.00 35.11 ATOM 138 CG1 VAL A 328 24.068 6.722 52.020 1.00 34.13 ATOM 139 CG2 VAL A 328 22.189 5.603 50.768 1.00 31.62 ATOM 140 N LEU A 329 22.788 7.715 54.770 1.00 44.76 ATOM 141 CA LEU A 329 23.338 8.705 55.672 1.00 49.06 ATOM 142 C LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 143 O LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 144 CB LEU A 329 23.008 8.250 57.121 1.00 51.57 ATOM 145 CG LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	MOTA	131	CE1 HIS	S A 327	13.920	8.860	52.202	1.00 59.43
ATOM 136 O VAL A 328 22.291 9.188 53.071 1.00 51.71 ATOM 137 CB VAL A 328 22.619 6.823 51.549 1.00 35.11 ATOM 138 CG1 VAL A 328 24.068 6.722 52.020 1.00 34.13 ATOM 139 CG2 VAL A 328 22.189 5.603 50.768 1.00 31.62 ATOM 140 N LEU A 329 22.788 7.715 54.770 1.00 44.76 ATOM 141 CA LEU A 329 23.338 8.705 55.672 1.00 49.06 ATOM 142 C LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 143 O LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 144 CB LEU A 329 25.601 8.211 56.188 1.00 53.01 ATOM 144 CB LEU A 329 23.008 8.250 57.121 1.00 51.57 ATOM 145 CG LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	ATOM	134	CA VA	L A 328	21.657	6.980	52.751	1.00 36.60
ATOM 138 CG1 VAL A 328 24.068 6.722 52.020 1.00 34.13 ATOM 139 CG2 VAL A 328 22.189 5.603 50.768 1.00 31.62 ATOM 140 N LEU A 329 22.788 7.715 54.770 1.00 44.76 ATOM 141 CA LEU A 329 23.338 8.705 55.672 1.00 49.06 ATOM 142 C LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 143 O LEU A 329 25.601 8.211 56.188 1.00 53.01 ATOM 144 CB LEU A 329 25.601 8.211 56.188 1.00 53.01 ATOM 145 CG LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	MOTA	136	O VA	L A 328	22.291	9.188	53.071	1.00 51.71
ATOM 141 CA LEU A 329 23.338 8.705 55.672 1.00 49.06 ATOM 142 C LEU A 329 24.833 8.942 55.562 1.00 47.49 ATOM 143 O LEU A 329 25.601 8.211 56.188 1.00 53.01 ATOM 144 CB LEU A 329 23.008 8.250 57.121 1.00 51.57 ATOM 145 CG LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	MOTA MOTA	138 139	CG1 VAI	L A 328 L A 328	24.068 22.189	6.722 5.603	52.020 50.768	1.00 34.13 1.00 31.62
ATOM 143 O LEU A 329 25.601 8.211 56.188 1.00 53.01 ATOM 144 CB LEU A 329 23.008 8.250 57.121 1.00 51.57 ATOM 145 CG LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	MOTA	141	CA LE	J A 329	23.338	8.705	55.672	1.00 49.06
ATOM 145 CG LEU A 329 21.485 7.974 57.281 1.00 55.29 ATOM 146 CD1 LEU A 329 21.206 7.139 58.539 1.00 56.60	MOTA	143	O LE	J A 329	25.601	8.211	56.188	1.00 53.01
	ATOM ATOM	145 146	CG LE	J A 329 J A 329	21.485 21.206	7.974 7.139	57.281 58.539	1.00 55.29 1.00 56.60

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ATOM	148	N	ILE A	330	25.227	9.937	54.768	1.00 47.68	NT.
									N
ATOM	149	CA	ILE A	. 330	26.650	10.243	54.682	1.00 43.16	C
MOTA	150	С	ILE A	330	26.808	11.652	55.247	1.00 44.09	С
ATOM	151	0	ILE A		25.993	12.531	54.992	1.00 39.19	ō
									Ō
MOTA	152	CB	ILE A		27.268	10.097	53.297	1.00 43.80	С
ATOM	153	CG1	ILE A	. 330	28.801	10.199	53.394	1.00 35.76	C
ATOM	154	CG2	ILE A	. 330	26.714	11.120	52.329	1.00 37.55	C
ATOM	155		ILE A		29.485	9.364	52.319	1.00 37.90	č
									C
ATOM	156	N	SER A	. 331	27.880	11.847	56.030	1.00 46.29	N
ATOM	157	CA	SER A	. 331	28.030	13.202	56.563	1.00 49.87	C
ATOM	158	C	SER A		29.267	13.807	55.914	1.00 52.53	Ċ
	159								0
MOTA		0	SER A		30.160	13.053	55.533	1.00 49.80	0
ATOM	160	CB	SER A	. 331	28.213	13.243	58.076	1.00 48.11	C
ATOM	161	OG	SER A	. 331	26.912	13.454	58.596	1.00 52.06	0
MOTA	162	N	ARG A	332	29.295	15.124	55.816	1.00 51.02	N
									10
ATOM	163	CA	ARG A		30.453	15.793	55.247	1.00 47.44	С
ATOM	164	C	ARG A		31.719	15.467	56.048	1.00 46.53	С
ATOM	165	0	ARG A	. 332	31.584	15.127	57.211	1.00 44.60	0
ATOM	166	СВ	ARG A		30.312	17.307	55.395	1.00 49.11	č
									~
MOTA	167	CG	ARG A		30.002	18.071	54.130	1.00 47.15	0 0 0
ATOM	168	CD	ARG A	. 332	29.914	19.560	54.480	1.00 48.27	С
ATOM	169	NE	ARG A	332	29.062	20.225	53.493	1.00 45.94	N
ATOM	170	CZ	ARG A		29.569	20.997	52.531	1.00 44.52	Ċ
MOTA	171		ARG A		28.715	21.538	51.674	1.00 43.36	N
ATOM	172	NH2	ARG A	. 332	30.873	21.223	52.439	1.00 41.93	N
ATOM	173	N	PRO A	333	32.861	15.669	55.438	1.00 46.60	N
ATOM	174	CA	PRO A		34.114	15.452	56.141	1.00 50.04	
									С
ATOM	175	С	PRO A	. 333	34.378	16.619	57.093	1.00 50.91	C
ATOM	176	0	PRO A	. 333	33.758	17.679	56.986	1.00 46.07	0
ATOM	177	CB	PRO A		35.192	15.402	55.062	1.00 51.24	č
									C
ATOM	178	CG	PRO A		34.581	16.017	53.857	1.00 51.07	C
ATOM	179	CD	PRO A	. 333	33.091	16.096	54.045	1.00 48.89	C
ATOM	180	N	SER A	334	35.273	16.359	58.036	1.00 54.26	N
ATOM	181	CA	SER A		35.698	17.405	58.971	1.00 59.74	č
									2
ATOM	182	С	SER A	. 334	36.973	17.950	58.320	1.00 58.71	С
ATOM	183	0	SER A	334	37.913	17.172	58.137	1.00 61.30	0
ATOM	184	CB	SER A		35.976	16.884	60.365	1.00 57.11	Ċ
									_
MOTA	185	OG	SER A		35.815	17.982	61.246	1.00 65.66	0
MOTA	186	N	ALA A	. 335	36.927	19.173	57.850	1.00 57.04	N
MOTA	187	CA	ALA A	335	38.032	19.809	57.136	1.00 57.50	С
MOTA	188	С	ALA A		37.420	20.176	55.781	1.00 56.09	С
									0
MOTA	189	0	ALA A		36.664	19.356	55.256	1.00 56.58	0
ATOM	190	CB	ALA A	. 335	39.255	18.963	56.851	1.00 55.12	C
ATOM	191	N	PRO A	336	37.677	21.372	55.299	1.00 55.44	N
ATOM	192	CA	PRO A		37.107	21.770	54.016	1.00 47.77	Ċ
									~
ATOM	193	С	PRO A		37.465	20.746	52.949	1.00 43.81	С
MOTA	194	0	PRO A	336	38.438	19.982	53.033	1.00 35.36	0
ATOM	195	CB	PRO A	336	37.643	23.167	53.817	1.00 50.74	С
	196		PRO A		38.306	23.605	55.069	1.00 51.78	č
ATOM		CG							
ATOM	197	CD	PRO A		38.561	22.389	55.913	1.00 52.02	С
MOTA	198	N	PHE A	337	36.688	20.667	51.872	1.00 38.45	N
ATOM	199	CA	PHE A	337	36.930	19.690	50.829	1.00 38.41	C
ATOM	200	C	PHE A			19.870	50.003	1.00 36.62	Č
									0
ATOM	201	0	PHE A	33/	38.535	21.009	49.768	1.00 37.09	0
ATOM	202	CB	PHE A	3 37	35.767	19.748	49.808	1.00 34.49	C
ATOM	203	CG	PHE A	337	34.594	18.891	50.176	1.00 29.83	C
ATOM	204		PHE A		34.797	17.520	50.284	1.00.26.36	Ċ
									č
ATOM	205		PHE A		33.337	19.405	50.381	1.00 33.91	С
ATOM	206	CE1	PHE A	337	33.783	16.653	50.608	1.00 30.38	С
ATOM	207		PHE A		32.304	18.537	50.729	1.00 33.76	. С
MOTA	208	cz	PHE A		32.524	17.176	50.818	1.00 30.40	Č
MOTA	209	N	THR A		38.822	18.764	49.605	1.00 35.69	N
MOTA	210	CA	THR A	338	39.931	18.850	48.667	1.00 34.49	C
ATOM	211	C	THR A		39.521	18.042	47.428	1.00 36.55	C
ATOM	212	ŏ	THR A		38.489	17.354	47.471	1.00 33.13	ō
									Ž
ATOM	213	CB	THR A		41.227	18.242	49.174	1.00 37.42	C O
MOTA	214	OG1	THR A	338	40.992	16.847	49.378	1.00 34.86	Ö
ATOM	215	CG2	THR A		41.695	18.905	50.466	1.00 39.82	С
	216		GLU A		40.299	18.060	46.356	1.00 38.20	N
MOTA		N							
MOTA	217	CA	GLU A		39.939	17.245	45.182	1.00 31.68	C
MOTA	218	С	GLU A	339	39.804	15.784	45.602	1.00 34.71	С
ATOM	219	ō	GLU A		38.782	15.149	45.344	1.00 29.59	0
								1.00 33.81	Č
MOTA	220	СВ	GLU A		40.948	17.416	44.063		ر ۔
ATOM	221	CG	GLU A		40.500	16.717	42.776	1.00 34.94	, C
ATOM	222	CD	GLU A		41.430	17.024	41.627	1.00 35.71	C
	223		GLU A		42.466	16.332	41.550	1.00 40.73	ō
ATOM									0
MOTA	224	OE2	GLU A	339	41.125	17.947	40.853	1.00 39.23	U

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	22222222222222222222222222222222222222	N C C O C B C O C C C C C C C C C C C C C	ALA A 340 ALA A 340 ALA A 340 ALA A 341 SER A 342 MET A 343 MET A 344	40.740 40.665 39.502 38.927 41.931 39.226 38.803 35.920 38.428 36.823 35.920 38.428 36.44 35.292 35.145 33.146 33.146 33.156 33.1456 33.156 33.156 35.920 33.456 33.175 33.1725 35.1256 35.920 37.1256	15.237 13.5448 13.448 14.388 14.096 14.291 13.514 14.8252 15.347 14.123 13.5618 16.704 18.3123 13.5618 16.3123 13.2268	46.3831 47.5521 48.77008 49.1009 49.1009 49.1009 49.1009 49.1009 49.1009 49.1009 40.0005 40	1.00 30.70 1.00 27.77 1.00 25.62 1.00 27.51 1.00 29.10 1.00 26.84 1.00 29.79 1.00 28.43 1.00 26.89 1.00 30.59 1.00 23.72 1.00 28.77 1.00 25.36 1.00 26.43 1.00 27 1.00 26.43 1.00 27 1.00 27 1.00 21.50 1.00 21.50 1.00 21.78 1.00 26.69 1.00 26.93 1.00 20.73 1.00 20.73 1.00 20.73 1.00 20.97
ATOM	271		LEU A 346	31.072	13.318	44.954	1.00 24.44
ATOM	272		LEU A 346	31.454	14.028	43.664	1.00 27.57
ATOM	273		LEU A 346	29.603	13.613	45.260	1.00 24.42
ATOM	274	N	THR A 347	32.338	8.877	45.732	1.00 18.51
ATOM	275	CA	THR A 347	32.414	7.450	45.373	1.00 21.98
ATOM	276	C	THR A 347	31.983	6.573	46.524	1.00 24.51
ATOM	277		THR A 347	31.368	5.529	46.275	1.00 23.87
ATOM	278	CB	THR A 347	33.796	7.089	44.809	1.00 25.39
ATOM	279		THR A 347	34.738	7.391	45.842	1.00 21.99
ATOM	280	CG2	THR A 347	34.123	7.889	43.565	1.00 25.92
ATOM	281	N	LYS A 348	32.185	6.947	47.799	1.00 24.27
ATOM	282	CA	LYS A 348	31.650	6.172	48.913	1.00 22.75
ATOM	283	0	LYS A 348	30.115	6.236	48.952	1.00 20.19
ATOM	284		LYS A 348	29.438	5.260	49.278	1.00 20.54
ATOM	285	CB	LYS A 348	32.116	6.807	50.258	1.00 30.65
ATOM	286	CG	LYS A 348	31.525	6.139	51.484	1.00 38.85
MOTA	287	CD	LYS A 348	32.566	5.870	52.566	1.00 51.23
ATOM	288	CE	LYS A 348	32.062	4.767	53.515	1.00 53.45
ATOM	289	NZ	LYS A 348	33.152		54.471	1.00 61.29
ATOM	290	N	LEU A 349	29.568	7.436	48.668	1.00 21.35
ATOM	291	CA	LEU A 349	28.098	7.606	48.692	1.00 20.62
ATOM	292	O.	LEU A 349	27.531	6.728	47.554	1.00 20.65
ATOM	293		LEU A 349	26.554	6.036	47.757	1.00 18.64
ATOM	294	CB	LEU A 349	27.658	9.049	48.459	1.00 20.47
	295	CG	LEU A 349	26.159	9.320	48.202	1.00 24.04
ATOM ATOM	296	CD1	LEU A 349	25.303	8.888	49.386	1.00 23.46
ATOM	297	N	LEU A 349	25.830	10.812	48.019	1.00 22.26
ATOM	298		ALA A 350	28.198	6.787	46.386	1.00 19.00
MOTA	299	CA	ALA A 350	27.723	5.962	45.252	1.00 21.07
MOTA	300	C	ALA A 350	27.733	4.475	45.613	1.00 19.81
ATOM	301	ŏ	ALA A 350	26.784	3.733	45.385	1.00 18.86

ATOM 3 AT	10 11 2 13 14 15 16 17 18 19 20 12 22 24 25 26 78 26 27 28 20 20 20 20 20 20 20 20 20 20 20 20 20	GLU A 353 LEU A 354 LEU A 355 VAL A 356 HIS A 357 MET A 358 ILE A 358	28.86798429 28.86798429 20.330.326.23653 30.326.23653 30.326.33653 30.326.33653 30.326.33653 30.326.33653 30.326.33653 30.326.33653 30.326.33653 30.326.33653 30.326.33653 30.326.33653 30.326.33653 30.326.33655 30.326.33655 30.326.33655 30.326.33655 30.326.33655 30.326.33655 30.326.33655 30.326.33655 30.326.3365 30.3266 30.3	2.131 0.334 1.608 0.096 0.085 -1.353 -1.604 0.761 1.079 1.628 3.188 -2.306 -3.705 -4.180 -4.859 -4.633 -4.633 -4.358 -6.125 -4.417 -3.920 -4.297 -3.645	50.348 51.603 51.614 45.141 43.760 43.318 42.647 42.761 41.3215 40.968 43.693 43.932 43.932 43.261 43.261 43.261 43.261 43.261 43.261 43.261 43.261 43.261	1.00 20.94 1.00 23.60 1.00 21.31 1.00 24.66 1.00 24.66 1.00 24.20 1.00 27.97 1.00 18.89 1.00 23.98 1.00 23.98 1.00 23.98 1.00 27.75 1.00 41.30 1.00 47.71 1.00 57.64 1.00 19.52 1.00 19.13 1.00 21.74 1.00 21.74 1.00 24.03 1.00 21.74 1.00 24.03 1.00 21.74 1.00 24.03 1.00 21.74 1.00 24.03 1.00 27.79 1.00 24.62 1.00 24.78 1.00 24.58 1.00 27.79 1.00 24.58 1.00 25.64 1.00 27.79 1.00 27.79 1.00 28.19 1.00 27.79 1.00 27.79 1.00 28.19 1.00 27.79 1.00 27.79 1.00 28.19 1.00 27.79 1.00 2
ATOM 36 ATOM 36 ATOM 37 ATOM 37 ATOM 37 ATOM 37 ATOM 37 ATOM 37 ATOM 37	68 CG2 69 CD1 70 N 71 CA 72 C 73 O 74 CB 75 OG 76 N 77 CA	ILE A 358 ILE A 358 SER A 359 SER A 359	21.074 22.836 18.749 17.524	-6.125 -4.417 -3.920 -4.297	43.773 41.769 45.215 45.906	1.00 33.68 1.00 32.41 1.00 23.68 1.00 27.31

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9012345678900123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901245678901245678901245678901245678901245678901245678900124567890012456789001245678900124567890012456789001245678900124567890012456789000000000000000000000000000000000000	CD2 CE1 CE2 CZ N CA	TRP A 366 TRP A		13.578	993 5683 1884 1992 1001 1001 1002 1102 1002 1	42.02196608421354441.0021365092276442.0329861444.1141414141414141414141414141414141	1.00 23.85 1.00 24.32 1.00 24.32 1.00 24.32 1.00 22.74 1.00 22.86 1.00 21.78 1.00 21.78 1.00 21.78 1.00 21.78 1.00 21.78 1.00 21.78 1.00 24.14 1.00 27.72 1.00 26.60 1.00 27.72 1.00 26.56 1.00 31.00 1.00 32.50 1.00 33.52 1.00 32.50 1.00 32.50
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 445 445 445 445 451 453 454	CE1 CE2 CZ N CA C O CB CG1 CG2 N CA C O CB	PHE A 36 PHE A 36 PHE A 36 VAL A 36 GLU A 36	7 7 7 3 3 3 3 3 3 3 3 3 3 9 9 9 9	16.468 17.152 17.476 13.172 13.883 13.578 14.321 13.680 14.393 12.202 12.554 12.216 13.059 13.077 10.718	-5.134 -6.598 -5.704 -9.684 -10.923 -12.051 -13.046 -11.377 -10.440 -11.506 -11.897 -12.899 -12.766 -13.642 -12.789	35.986 37.722 36.716 38.100 38.447 37.478 37.437 39.901 40.251 36.643 35.627 34.378 33.500 35.299	1.00 24.88 1.00 27.58 1.00 26.84 1.00 32.49 1.00 32.31 1.00 36.24 1.00 35.22 1.00 35.30 1.00 39.26 1.00 43.35 1.00 43.35 1.00 43.51 1.00 44.22
MOTA	455	CG	GLU A 36	J	9.861	-13.359	36.425	1.00 53.77

ATOM ATOM	456 457	CD OE1	GLU A			-13.179 -12.735	36.203 35.104	1.00 58.72 1.00 61.35
ATOM	458	OE2	GLU A	369		-13.460	37.111	1.00 63.00
ATOM ATOM	459 460	N CA	LEU A	370		-11.636 -11.430	34.229 33.093	1.00 42.33 1.00 39.24
ATOM	461	C	LEU A			-12.375	33.255	1.00 39.24
ATOM	462	Ö	LEU A			-12.782	34.396	1.00 43.46
MOTA	463	CB	LEU A		15.169	-9.992	33.024	1.00 38.90
MOTA	464	CG	LEU A		14.069	-8.932	32.855	1.00 36.26
ATOM ATOM	465 466		LEU A		14.661 13.335	-7.526 -9.131	32.880 31.534	1.00 38.31 1.00 41.34
ATOM	467	N	SER A			-12.715	32.176	1.00 41.54
MOTA	468	CA	SER A		17.658	-13.594	32.332	1.00 39.96
ATOM	469	C	SER A			-12.862	33.148	1.00 43.04
ATOM ATOM	470 471	O CB	SER A			-11.620 -13.899	33.243 30.955	1.00 39.51 1.00 43.12
ATOM	472	OG	SER A			-12.649	30.419	1.00 38.32
MOTA	473	N	LEU A			-13.612	33.675	1.00 31.82
ATOM	474	CA	LEU A			-13.028 -12.049	34.452 33.611	1.00 32.28
ATOM ATOM	475 476	C O	LEU A		22.098	-12.049	34.047	1.00 34.87 1.00 33.17
ATOM	477	СВ	LEU A		21.640	-14.147	34.974	1.00 38.05
MOTA	478	CG	LEU A			-13.858	35.916	1.00 39.95
MOTA	479		LEU A			-13.117	37.149	1.00 44.82
MOTA MOTA	480 481	N	LEU A			-15.187 -12.417	36.387 32.333	1.00 42.80 1.00 31.42
ATOM	482	CA	PHE A			-11.511	31.483	1.00 31.42
ATOM	483	С	PHE A		21.782	-10.220	31.250	1.00 24.19
MOTA	484	0	PHE A		22.455	-9.193	31.101	1.00 29.66
MOTA ATOM	485 486	CB CG	PHE P			-12.143 -13.236	30.138 30.303	1.00 36.67 1.00 43.12
ATOM	487	CD1				-13.358	31.467	1.00 45.48
MOTA	488		PHE A		24.170	-14.146	29.273	1.00 46.57
ATOM	489		PHE A			-14.378	31.619	1.00 52.03
ATOM ATOM	490 491	CE2	PHE A		25.101	-15.162 -15.266	29.416 30.584	1.00 49.07 1.00 49.72
ATOM	492	N	ASP F			-10.304	31.152	1.00 26.27
ATOM	493	CA	ASP A	374	19.704	-9.061	30.891	1.00 29.02
ATOM	494	C	ASP A		19.705	-8.212	32.177	1.00 33.83
ATOM ATOM	495 496	O CB	ASP A		19.921 18.300	-6.991 -9.313	32.125 30.398	1.00 28.99 1.00 32.07
ATOM	497	CG	ASP A		18.189	-9.669	28.906	1.00 32.07
ATOM	498		ASP A		19.188	-9.555	28.161	1.00 40.18
ATOM	499		ASP A		17.086	-10.088	28.467	1.00 39.38
MOTA ATOM	500 501	N CA	GLN A		19.591 19.608	-8.865 -8.071	33.347 34.583	1.00 32.60 1.00 31.64
ATOM	502	C	GLN A		20.916	-7.333	34.726	1.00 30.67
MOTA	503	0	GLN A		20.870	-6.138	35.028	1.00 25.21
MOTA	504	CB	GLN A		19.352	-8.889 -9.549	35.868 35.848	1.00 32.73 1.00 26.43
MOTA MOTA	505 506	CG CD	GLN A		17.995 17.776	-10.429	37.077	1.00 28.43
ATOM	507	OE1			18.178	-10.067	38.176	1.00 37.23
MOTA	508	NE2			17.123	-11.571	36.895	1.00 32.94
ATOM ATOM	509 510	N CA	VAL A		22.037 23.342	-8.009 -7.387	34.515 34.620	1.00 26.87 1.00 29.51
ATOM	511	C	VAL A		23.603	-6.347	33.546	1.00 28.83
ATOM	512	ō	VAL A		24.160	-5.246	33.774	1.00 27.40
MOTA	513	CB	VAL A		24.406	-8.503	34.672	1.00 32.02
ATOM ATOM	514 515		VAL A		25.813 24.140	-7.968 -9.362	34.697 35.927	1.00 26.56 1.00 35.02
MOTA	516	N N	ARG A		23.206	-6.612	32.296	1.00 35.02
MOTA	517	CA	ARG A	377	23.455	-5.585	31.270	1.00 27.53
MOTA	518	. C	ARG A		22.663	-4.309	31.596	1.00 23.06
ATOM ATOM	519 520	O CB	ARG A		23.199 23.134	-3.217 -6.117	31.349 29.895	1.00 25.17 1.00 34.14
ATOM	521	CG	ARG A		21.735	-5.910	29.433	1.00 40.47
MOTA	522	CD	ARG A	377	21.572	-5.937	27.920	1.00 48.13
MOTA	523	NE	ARG A		20.220	-6.455	27.686	1.00 45.66
MOTA MOTA	524 525	CZ NH1	ARG A		19.401 18.208	-5.929 -6.486	26.796 26.676	1.00 53.53 1.00 51.20
ATOM	526		ARG A		19.793	-4.873	26.093	1.00 55.56
MOTA	527	N	LEU A	378	21.418	-4.443	31.991	1.00 22.82
ATOM	528 520	CA	LEU A		20.599	-3.260 -2.443	32.361	1.00 22.74 1.00 20.13
MOTA MOTA	529 530	C O	LEU A		21.273 21.502	-2.443 -1.230	33.483	1.00 20.13 1.00 24.01
ATOM	531	СВ	LEU A		19.172	-3.599	32.766	1.00 21.48
MOTA	532	CG	LEU A	378	18.322	-4.303	31.691	1.00 26.61

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ATOM	533	CD1	LEU A	378	16.974	-4.747	32.179	1.00 25.18
ATOM ATOM	534 535	CD2 N	LEU A LEU A		18.156 21.623	-3.326 -3.098	30.516 34.582	1.00 26.44
MOTA	536	CA	LEU A		22.258	-2.379	35.694	1.00 23.21 1.00 23.26
ATOM	537	C	LEU A		23.589	-1.746	35.352	1.00 24.40
ATOM ATOM	538 539	O CB	LEU A		23.889 22.463	-0.596 -3.314	35.669 36.893	1.00 21.75 1.00 20.84
ATOM	540	CG	LEU A	379	21.188	-3.651	37.669	1.00 24.99
ATOM ATOM	541 542		LEU A		21.460 20.694	-4.962 -2.570	38.405 38.597	1.00 24.61 1.00 27.69
ATOM	543	N	GLU A	380	24:415	-2.461	34.539	1.00 24.06
ATOM ATOM	544 545	CA C	GLU A		25.714 25.571	-1.922 -0.678	34.173 33.311	1.00 25.95 1.00 25.00
ATOM	546	0	GLU A	380	26.337	0.267	33.415	1.00 27.21
ATOM ATOM	547 548	CB CG	GLU A		26.467 27.815	-3.046 -2.632	33.416 32.866	1.00 35.58 1.00 43.85
ATOM	549	CD	GLU A	380	28.719	-2.197	34.012	1.00 50.26
ATOM ATOM	550 551		GLU A		29.012 29.079	-2.992 -1.015	34.923 33.949	1.00 50.00 1.00 52.17
MOTA	552	N	SER A	381	24.559	-0.692	32.421	1.00 22.96
ATOM ATOM	553 554		SER A		24.391 23.796	0.472 1.718	31.597 32.260	1.00 20.93 1.00 22.00
MOTA	555	0	SER A	381	24.076	2.802	31.757	1.00 25.94
ATOM ATOM	556 557	CB OG	SER A SER A		23.427 23.369	0.135 1.319	30.443 29.665	1.00 26.35 1.00 41.12
ATOM	558	N	CYS A	382	22.991	1.574	33.279	1.00 19.49
ATOM ATOM	559 560		CYS A		22.268 22.649	2.746 3.184	33.789 35.179	1.00 20.72 1.00 20.55
MOTA	561	0	CYS A	382	22.032	4.173	35.591	1.00 18.26
ATOM ATOM	562 563		CYS A		20.784 20.419	2.232 1.235	33.926 35.363	1.00 20.19 1.00 23.70
ATOM	564	N	TRP A	383	23.692	2.615	35.831	1.00 16.62
ATOM ATOM	565 566		TRP A		23.714 24.047	2.980 4.435	37.265 37.510	1.00 17.45 1.00 17.92
ATOM	567	0	TRP A	383	23.395	5.063	38.383	1.00 17.80
ATOM ATOM	568 569		TRP A		24.667 26.081	2.020 2.031	38.033 37.564	1.00 18.03 1.00 20.65
ATOM	570	CD1	TRP A	383	26.642	1.181	36.616	1.00 18.50
ATOM ATOM	571 572		TRP A		27.125 27.979	2.928 1.540	37.985 36.470	1.00 18.96 1.00 19.72
MOTA	573	CE2	TRP A	383	28.293	2.585	37.289	1.00 22.08
ATOM ATOM	57 4 57 5		TRP A		27.160 29.484	4.002 3.321	38.915 37.430	1.00 18.46 1.00 22.38
MOTA	576	CZ3	TRP A	383	28.309	4.725	39.045	1.00 22.44
ATOM ATOM	577 578		TRP A MET A		29.483 24.955	4.358 5.020	38.328 36.711	1.00 23.23 1.00 14.97
ATOM	579	CA	MET A	384	25.254	6.450	37.001	1.00 15.11
ATOM ATOM	580 581		MET A		24.024 23.729	7.290 8.291	36.691 37.354	1.00 16.51 1.00 14.18
ATOM	582	CB	MET A	384	26.519	6.912	36.267	1.00 20.28
ATOM ATOM	583 584		MET A		26.749 27.340	8.399 8.718	36.546 38.232	1.00 19.66 1.00 19.34
ATOM	585	CE	MET A		29.061	8.231	38.081	1.00 19.18
ATOM ATOM	586 587		GLU A		23.271 22.051	6.910 7.674	35.638 35.297	1.00 14.74 1.00 15.30
ATOM	588		GLU A		20.996	7.593 8.573	36.411	1.00 15.06 1.00 16.82
ATOM ATOM	589 590		GLU A		20.308 21.445	7.258	36.682 33.915	1.00 18.49
MOTA	591 592		GLU A		20.565 19.946	8.409 8.069	33.347 32.000	1.00 21.96 1.00 29.86
ATOM ATOM	593		GLU A		20.470	7.169	31.267	1.00 21.88
ATOM ATOM	594 595		GLU A VAL A		18.913 20.846	8.711 6.400	31.676 36.972	1.00 30.28 1.00 16.06
ATOM	596	CA	VAL A	386	19.838	6.276	38.070	1.00 15.50
ATOM ATOM	597 598		VAL A		20.265 19.470	7.075 7.7 4 7	39.250 39.926	1.00 16.51 1.00 17.88
ATOM	599	CB	VAL A	386	19.719	4.793	38.408	1.00 15.13
ATOM ATOM	600 601		VAL A VAL A		18.872 19.005	4.559 4.159	39.647 37.192	1.00 17.57 1.00 20.15
ATOM	602	N	LEU A	387	21.573	6.938	39.608	1.00 14.70
ATOM ATOM	603 604		LEU A		22.059 21.773	7.752 9.225	40.744 40.466	1.00 15.55 1.00 15.84
ATOM	605	0	LEU A	387	21.360	9.916	41.401	1.00 19.29
ATOM ATOM	606 607		LEU A		23.592 24.058	7.579 6.259	40.850 41.474	1.00 14.14 1.00 15.59
ATOM	608	CD1	LEU A	387	25.617	6.319	41.591	1.00 16.49
MOTA	609	CD2	LEU A	שנ.	23.356	5.939	42.802	1.00 19.80

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	610 6112 6113 6115 6117 6117 6119 6122 6122 6122 6122 6132 6132 6132 6132	N CA C C C C C C C C C C C C C C C C C C	MET A 388 MET A 389	22.05 21.90 20.44 20.05 22.59 24.13 24.93 26.53 19.61 18.13 17.69 17.32 15.80 15.54 14.00 18.12 17.75 18.29 17.75 19.53 20.10 19.25 21.50 22.49 22.49 23.60 18.09 16.77 16.40 18.73 20.39	9.734 11.185 7 11.580 8 12.648 11.558 11.508 12.007 7 12.485 7 10.631 10.977 11.200 12.135 9.898 10.185 11.620 12.304 10.304 10.304 10.304 10.304 10.442 11.763 12.480 12.120 13.363 14.546	39.019 38.940 39.466 37.691 36.345 36.996 38.476 37.804 37.609 36.521 37.143 40.839 42.274 42.831 43.574 42.484 42.942 42.476	1.00 15.03 1.00 16.31 1.00 13.28 1.00 16.22 1.00 15.49 1.00 17.90 1.00 12.07 1.00 18.42 1.00 18.42 1.00 17.10 1.00 16.48 1.00 20.74 1.00 21.26 1.00 31.58 1.00 19.95 1.00 19.95 1.00 24.49 1.00 21.09 1.00 17.24 1.00 18.33 1.00 18.46	
ATOM ATOM	633 634	O CB	LEU A 391 LEU A 391	19.054 21.50	15.541 5 13.511	43.203 42.329	1.00 19.59 1.00 15.42	
ATOM	635	CG	LEU A 391	22.24	14.833	42.480	1.00 15.46	
ATOM ATOM	636 637	CD1	LEU A 391	23.600	9 15.155 14.728	43.968 41.777	1.00 23.19 1.00 17.31	
ATOM ATOM	638 639	N	MET A 392	18.862	2 14.513 L 15.642		1.00 15.68 1.00 18.68	
MOTA	640	C	MET A 392	16.77	15.763	41.383	1.00 20.62	
ATOM ATOM	641 642	O CB	MET A 392	16.405 17.87	16.876 15.414	41.784 39.153	1.00 19.69 1.00 19.75	
ATOM	643	CG	MET A 392	19.17	15.445	38.372	1.00 22.97	
MOTA ATOM	644 645	SD CE	MET A 392 MET A 392	18.739 20.39	9 15.196 7 15.422		1.00 24.98 1.00 25.59	
ATOM	646	N	TRP A 393	16.11	14.616	41.589	1.00 18.58	
ATOM	647 648	CA	TRP A 393	14.87	7 14.673 1 15.209		1.00 24.71 1.00 26.53	
ATOM ATOM	649	o	TRP A 393	14.27	16.016	44.283	1.00 25.74	
MOTA	650 651	CB	TRP A 393	14.243	3 13.287 9 13.235		1.00 21.18 1.00 24.40	
ATOM ATOM	652	CD1	TRP A 393	13.00	12.632	44.621	1.00 27.20	
ATOM ATOM	653	CD2	TRP A 393	11.77	5 13.838 5 12.830		1.00 25.32 1.00 26.38	
ATOM	654 655	CE2	TRP A 393	10.99	13.572	44.304	1.00 26.02	
ATOM	656	CE3	TRP A 393	20.39° 16.11° 14.87° 15.12° 14.24° 13.05° 13.00° 11.77° 11.74° 10.99° 11.23° 9.67° 9.87°	2 14.584 L 14.005	42.116 44.408	1.00 24.98 1.00 26.15	
ATOM ATOM	657 658	CZ3	TRP A 393	9.879	15.004	42.195	1.00 26.45	
MOTA	659	CH2	TRP A 393 ARG A 394	9.148 16.17	3 14.720	43.368 44.508	1.00 28.96 1.00 21.62	
ATOM ATOM	660 661	N CA	ARG A 394	16.42	7 15.299	45.869	1.00 20.86	
ATOM	662	C	ARG A 394	16.740		45.833 46.796	1.00 24.67 1.00 23.01	
ATOM ATOM	663 664	O CB	ARG A 394 ARG A 394	16.496 17.623		46.736	1.00 18.23	
ATOM	665	CG	ARG A 394 ARG A 394	17.184 18.268		46.915 47.731	1.00 22.23 1.00 21.34	
ATOM ATOM	666 667	CD NE	ARG A 394	19.583		47.096	1.00 22.33	
MOTA	668	CZ	ARG A 394 ARG A 394	19.990 19.128		46.204 45.872	1.00 18.45 1.00 19.75	
MOTA MOTA	669 670	NH2		21.240	11.562	45.776	1.00 19.94	
ATOM	671	N	SER A 395	17.259 17.639		44.742 44.635	1.00 21.15 1.00 21.44	
ATOM ATOM	672 673	CA C	SER A 395 SER A 395	16.58		44.025	1.00 19.15	
ATOM	674	0	SER A 395	16.879		43.832 43.718	1.00 23.10 1.00 18.04	
ATOM ATOM	675 676	CB OG	SER A 395 SER A 395	18.892 19.879		44.335	1.00 18.04	
MOTA	677 679	N	ILE A 396	15.440 14.45		43.684 42.942	1.00 19.81 1.00 24.62	
MOTA MOTA	678 679	CA C	ILE A 396 ILE A 396	14.009	5 21.237	43.614	1.00 27.35	
MOTA	680	0	ILE A 396	13.93° 13.33°		42.954 42.576	1.00 28.08 1.00 31.97	
ATOM ATOM	681 682	CB CG1	ILE A 396 ILE A 396	12.71	1 19.384	41.243	1.00 35.67	
ATOM	683	CG2	ILE A 396 ILE A 396	12.33 11.80		43.701 40.594	1.00 34.39 1.00 31.62	
ATOM ATOM	684 685	N	ASP A 397	13.77	5 21.172	44.899	1.00 27.38	
ATOM	686	CA	ASP A 397	13.31	7 22.305	45.726	1.00 30.34	

ATOM	687	С	ASP A	A 397	•	14.462	23.046	46.363	1.00	33.09	С
ATOM ATOM	688	0		A 397		14.280	23.798 21.706	47.336		33.75	0
ATOM	689 690	CB CG		A 397 A 397		12.426 11.165	21.706	46.827 46.262		31.40 34.81	C
MOTA	691		ASP A			10.711	21.642	45.238		36.72	Õ
ATOM	692		ASP A			10.636	20.123	46.799		42.07	0
ATOM ATOM	693 694	N CA		A 398 A 398		15.690 16.869	22.885 23.510	45.876 46.427	1.00	26.91 31.70	N
ATOM	695	C	HIS A			17.772	24.132	45.405		27.69	C
ATOM	696	ō	HIS A			18.930	23.699	45.195		31.30	0
ATOM	697	CB		A 398		17.627	22.505	47.331		32.19	C
ATOM ATOM	698 699	CG ND1	HIS A			16.875 16.304	21.918 20.677	48.488 48.504		35.05 33.32	C N
ATOM	700		HIS A			16.575	22.452	49.696		30.34	C
ATOM	701	CE1	HIS A	A 398		15.690	20.447	49.661	1.00	34.45	C
ATOM ATOM	702 703		HIS A	A 398 A 399		15.853 17.345	21.527 25.183	50.409 44.713		37.51 33.73	N
ATOM	704	N CA	PRO A			18.144	25.898	43.752		29.82	И
ATOM	705	C	PRO A			19.549	26.216	44.223		33.25	č
ATOM	706	0_	PRO A			19.766	26.630	45.365		33.94	0
ATOM ATOM	707 708	CB CG		A 399 A 399		17.431 16.273	27.225 27.257	43.481 44.391		34.26 34.08	C
ATOM	709	CD		A 399		16.032	25.857	44.891		33.97	C
MOTA	710	N	GLY A	A 400		20.500	25.996	43.336	1.00	28.90	N
ATOM	711	CA	GLY A			21.921	26.254	43.561		29.24 25.18	C
ATOM ATOM	712 713	C	GLY A			22.590 23.787	25.173 25.298	44.418 44.704		27.24	C
ATOM	714	Ň	LYS A			21.860	24.150	44.863		25.56	N
MOTA	715	CA	LYS A			22.470	23.122	45.672		26.68	C
ATOM ATOM	716 717	C O	LYS A			22.286 21.296	21.688 21.465	45.064 44.391		20.20	C
ATOM	718	СВ	LYS A			21.635	22.912	46.955		30.94	č
MOTA	719	CG	LYS A	A 401		21.844	23.694	48.203	1.00	43.57	С
MOTA	720	CD	LYS A			22.115	25.154	48.045		45.37	C
ATOM ATOM	721 722	CE NZ	LYS A	A 401 A 401	•	22.201 20.883	25.882 26.446	49.389 49.784		48.67 51.08	C N
ATOM	723	N	LEU A			23.267	20.878	45.374		20.86	N
ATOM	724	CA	LEU A			23.112	19.446	44.987		22.31	C
ATOM ATOM	725 726	C	LEU A			22.957 23.914	18.664 18.555	46.275 47.078	1.00	21.03 19.86	C 0
ATOM	727	СВ	LEU A			24.288	19.025	44.112		18.88	С
ATOM	728	CG	LEU A			24.207	19.596	42.679		20.75	C
ATOM ATOM	729 730		LEU A			25.487 23.011	19.208 19.057	41.954 41.840	1.00	23.26 22.84	C
ATOM	731	N	ILE A			21.760	18.072	46.414		19.33	й
MOTA	732	CA	ILE A			21.468	17.280	47.619	1.00	19.55	С
ATOM	733	C	ILE A			21.916	15.809	47.407		20.88	C
ATOM ATOM	734 735	O CB	ILE A			21.112 20.006	14.947 17.287	47.151 48.022		20.74	, C
MOTA	736		ILE A			19.419	18.695	48.148	1.00	28.69	C
ATOM	737		ILE A			19.785	16.535	49.355		25.33	C
АТОМ АТОМ	738 739	CD1	ILE A			20.234 23.216	19.713 15.587	48.883 47.603		32.71 22.57	С И
ATOM	740	CA	PHE A			23.745	14.250	47.395		23.38	Č
MOTA	741	C	PHE A			23.132	13.275	48.383		23.34	С
ATOM	742 743	O CB	PHE A			22.779 25.284	12.120 14.338	48.095 47.413		23.60 21.32	0 C
ATOM ATOM	744	CG	PHE A			25.845	14.745	46.053		22.32	С
MOTA	745	CD1	PHE F			26.195	16.065	45.825	1.00	20.75	C
ATOM	746		PHE A			26.003 26.704	13.816	45.024		21.33 19.07	C
ATOM ATOM	747 748		PHE A			26.479	16.480 14.227	44.603 43.802		20.69	c
ATOM	749	CZ	PHE A			26.871	15.550	43.573	1.00	20.96	C
ATOM	750	N	ALA A			23.051	13.741	49.614		23.85	N
ATOM ATOM	751 752	CA C	ALA A			22.409 21.900	13.027 14.100	50.715 51.676		26.71 28.50	C C:0
ATOM	753	Õ	ALA A			22.384	15.235	51.720	1.00	25.10	ö
ATOM	754	СВ	ALA A			23.337	12.063	51.417		25.68	C
ATOM ATOM	755 756	N CA	PRO P			20.986 20.427	13.724 14.651	52.568 53.539	1.00	32.52 37.50	С
ATOM	757	CA	PRO F			21.459	15.439	54.322		34.45	C
MOTA	758	0	PRO F	406		21.222	16.618	54.615	1.00	34.95	······ O
ATOM	759 760	CB	PRO A			19.464 19.075	13.803 12.711	54.362 53.424		37.05 35.58	C
MOTA MOTA	760 761	CG CD	PRO P			20.321	12.711	52.623		35.62	Č
ATOM	762	N	ASP A	4 407		22.589	14.836	54.642	1.00	36.25	N
MOTA	763	CA	ASP A	4 407		23.669	15.532	55.325	1.00	37.74	С

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	764 765 766 767 768 769 770 771 772 773 774 775 777 778 779 780 781	OD2 N CA C O CB CG CD1 CD2 N CA C	ASP A ASP A ASP A ASP A ASP A LEU A LEU A LEU A LEU A LEU A LEU A VAL A VAL A VAL A	407 407 407 407 408 408 408 408 408 408 408 409 409 409	24.942 26.067 23.951 24.683 24.752 25.206 24.780 25.846 25.291 24.960 26.393 27.607 28.093 25.111 24.521 25.595 26.304	15.713 15.939 14.837 15.756 16.972 15.264 15.623 15.841 16.787 16.416 14.590 14.813 15.544 13.493 18.046 19.044 19.925 20.606	54.485 54.972 56.658 57.615 57.337 58.640 53.155 52.181 51.117 49.990 51.522 51.592 51.592 50.021 50.608 50.021 50.769	1.00 35.68 1.00 35.16 1.00 45.22 1.00 51.47 1.00 53.42 1.00 56.11 1.00 31.91 1.00 28.65 1.00 33.12 1.00 29.33 1.00 31.43 1.00 33.95 1.00 38.24 1.00 28.59 1.00 29.53 1.00 37.91
ATOM ATOM	782 783		VAL A	409	23.498	19.864	51.412	1.00 32.96
ATOM ATOM	784 785	N	VAL A LEU A	410	22.430 25.821	18.950 19.922	51.974 48.706	1.00 30.22 1.00 27.77
ATOM ATOM	786 787	CA C	LEU A		26.842 26.298	20.773 22.004	48.118 47.435	1.00 28.83 1.00 36.39
ATOM ATOM	788 789	O CB	LEU A LEU A		25.299 27.768	21.967 20.016	46.711 47.156	1.00 30.29 1.00 32.95
ATOM	790	CG	LEU A	410	28.396	18.710	47.612	1.00 36.56
ATOM ATOM	791 792		LEU A	410	29.505 28.902	18.242 18.749	46.683 49.045	1.00 34.98 1.00 41.39
ATOM ATOM	793 794	N CA	ASP A		26.938 26.539	23.164 24.350	47.686 46.933	1.00 33.11 1.00 34.05
MOTA	795	C	ASP A ASP A	411	27.299 28.419	24.255 23.727	45.600 45.543	1.00 29.65 1.00 30.84
ATOM ATOM	796 797	O CB	ASP A	411	26.884	25.698	47.590	1.00 41.04
ATOM ATOM	798 799	CG OD1	ASP A		25.865 25.986	26.016 25.474	48.674 49.792	1.00 49.46 1.00 56.56
ATOM	800 801	OD2 N	ASP A ARG A	411	24.919 26.745	26.778 24.819	48.410 44.558	1.00 55.40 1.00 31.76
ATOM ATOM	802	CA	ARG A	412	27.345	24.827	43.227	1.00 29.21
ATOM ATOM	803 804	C O	ARG A		28.814 29.634	25.148 24.412	43.185 42.643	1.00 32.15 1.00 31.27
ATOM ATOM	805 806	CB CG	ARG A		26.552 27.039	25.852 25.878	42.363 40.919	1.00 32.70 1.00 36.94
MOTA	807	CD	ARG A	412	28.132 28.493	26.912 26.982	40.680 39.276	1.00 42.09 1.00 40.17
ATOM ATOM	808 809	NE CZ	ARG A	412	29.542	27.671	38.812	1.00 45.07
ATOM ATOM	810 811	NH1 NH2			29.784 30.303	27.654 28.339	37.497 39.683	1.00 38.97 1.00 37.08
ATOM ATOM		N CA		413	29.233 30.622	26.262 26.701	43.809 43.828	1.00 34.93 1.00 40.84
MOTA	814	С	ASP A	413	31.593	25.749	44.469	1.00 36.09
ATOM ATOM	815 816	O CB	ASP A		32.796 30.740	25.792 28.092	44.201 44.465	1.00 37.87 1.00 46.18
ATOM ATOM	817 818	CG OD1	ASP A		30.199 30.090	29.197 29.017	43.580 42.345	1.00 51.56 1.00 54.10
ATOM	819	OD2	ASP A GLU A	413	29.872 31.171	30.278 24.776	44.130 45.271	1.00 53.78 1.00 36.43
	820 821	N CA	GLU A	414	32.096	23.800	45.838	1.00 33.20
ATOM ATOM	822 823	С 0	GLU A GLU A	414	32.628 33.644	22.891 22.235	44.742 44.932	1.00 35.36 1.00 40.36
ATOM ATOM	82 4 825	CB CG	GLU A GLU A	414	31.491 30.691	23.040 24.000	46.993 47.892	1.00 38.12 1.00 41.60
MOTA	826	CD	GLU A	414	30.377	23.195 23.012	49.151 49.394	1.00 42.56 1.00 39.90
ATOM ATOM	827 828	OE1		414	31.360	22.790	49.793	1.00 44.66
ATOM ATOM	829 830	N CA	GLY A		32.085 32.610	22.926 22.195	43.536 42.395	1.00 34.58 1.00 35.34
ATOM ATOM	831 832	C O	GLY A		34.002 34.711	22.657 22.005	41.995 41.201	1.00 36.70 1.00 32.74
MOTA	833	N	LYS A	416	34.448	23.846	42.442 42.108	1.00 35.48 1.00 35.85
ATOM ATOM	834 835	CA C	LYS A LYS A	416	35.776 36.869	24.340 23.525	42.794	1.00 37.60
ATOM ATOM	836 837	O CB	LYS A LYS A		38.023 35.874	23.520 25.827	42.370 42.441	1.00 35.22 1.00 38.97
ATOM ATOM	838 839	CG	LYS A LYS A	416	34.861 34.985	26.691	41.670 42.065	1.00 47.16 1.00 52.82
ATOM	840	CE	LYS A		33.891	29.049	41.509	1.00 54.67

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ATOM ATOM	841 842	NZ N	LYS A	417	34.253 36.549	29.728 22.700	40.235	1.00 61.17 1.00 37.57
ATOM ATOM	843 844	CA C	CYS A		37.456 38.026	21.852 20.726	44.507 43.662	1.00 39.44 1.00 39.18
MOTA	845	ŏ	CYS A		39.158	20.251	43.845	1.00 40.72
ATOM	846	CB	CYS A		36.732	21.280	45.758	1.00 41.41
ATOM ATOM	847 848	SG N	CYS A VAL A		35.889 37.259	22.509 20.203	46.822 42.698	1.00 49.13 1.00 36.06
ATOM	849	CA	VAL A		37.639	19.067	41.878	1.00 30.00
ATOM	850	C	VAL A		37.823	19.509	40.426	1.00 29.98
ATOM ATOM	851 852	O CB	VAL A		36.963 36.607	20.136 17.916	39.835 41.954	1.00 29.54 1.00 24.72
ATOM	853	CG1	VAL A	418	37.056	16.721	41.120	1.00 28.34
ATOM	854		VAL A		36.491	17.385	43.376	1.00 27.69
ATOM ATOM	855 856	N CA	GLU A		38.996 39.222	19.260 19.705	39.852 38.486	1.00 30.53 1.00 27.70
ATOM	857	C	GLU A	419	38.127	19.138	37.565	1.00 28.75
ATOM	858	O	GLU A		37.973	17.920	37.644	1.00 25.87
ATOM ATOM	859 860	CB CG	GLU A GLU A		40.567 40.880	19.171 19.646	38.008 36.586	1.00 32.23 1.00 40.70
ATOM	861	CD	GLU A	419	42.378	19.766	36.390	1.00 49.13
ATOM	862 863	OE1	GLU A GLU A		43.197	19.569	37.319	1.00 54.26
ATOM ATOM	864	OE2 N	GLU A		42.768 37.466	20.087 19.950	35.253 36.778	1.00 53.59 1.00 31.18
MOTA	865	CA	GLY A	420	36.492	19.450	35.807	1.00 27.93
ATOM ATOM	866 867	C O	GLY A		35.122 34.249	19.080 18.794	36.355 35.504	1.00 33.09 1.00 28.63
MOTA	868	N	ILE A		34.243	19.073	37.666	1.00 28.83
MOTA	869	CA	ILE A		33.550	18.669	38.126	1.00 29.80
ATOM ATOM	870 871	C O	ILE A		32.517 31.279	19.771 19.623	38.086 38.123	1.00 28.97 1.00 25.14
ATOM	872	СВ	ILE A		33.628	18.004	39.500	1.00 27.62
ATOM	873	CG1	ILE A		32.670	16.788	39.594	1.00 24.09.
ATOM ATOM	874 875		ILE A		33.307 32.796	19.021 16.062	40.589 40.920	1.00 25.66 1.00 26.64
ATOM	876	N	LEU A		32.974	21.033	38.058	1.00 29.20
ATOM	877	CA	LEU A		32.064	22.151	37.994	1.00 29.02
ATOM ATOM	878 879	С 0	LEU A		31.130 29.936	22.047 22.370	36.786 36.938	1.00 28.10 1.00 26.46
ATOM	880	СВ	LEU A		32.832	23.474	37.990	1.00 34.57
ATOM	881	CG	LEU A		32.019	24.681	38.416	1.00 40.29
ATOM ATOM	882 883	CD1	LEU A		31.516 32.838	24.495 25.975	39.849 38.252	1.00 31.88 1.00 39.46
ATOM	884	N	GLU A	423	31.671	21.647	35.639	1.00 25.58
ATOM	885 886	CA C	GLU A GLU A		30.835 29.725	21.486 20.452	34.431 34.679	1.00 29.62 1.00 28.25
ATOM ATOM	887	0	GLU A		28.595	20.452	34.079	1.00 28.25
ATOM	888	CB	GLU A	423	31.726	20.974	33.267	1.00 34.04
ATOM ATOM	889 890	CG CD	GLU A GLU A	423	31.029 ² 31.782	20.644 19.973	31.973 30.850	1.00 44.60 1.00 50.42
ATOM	891		GLU A		32.943	19.506	30.965	1.00 51.43
ATOM	892				31.182	19.846	29.747	1.00 55.11
ATOM ATOM	893 894	N CA	ILE A		30.100 29.183	19.371 18.289	35.348 35.705	1.00 22.70 1.00 20.28
ATOM	895	c	ILE A	424	28.161	18.831	36.706	1.00 20.01
ATOM ATOM	896 897	O CB	ILE A		26.968 29.908	18.612 17.079	36.533 36.296	1.00 18.93 1.00 20.86
ATOM	898		ILE A		31.091	16.538	35.477	1.00 26.56
ATOM	899		ILE A		28.909	15.958	36.559	1.00 19.58
ATOM ATOM	900 901	N CD1	ILE A PHE A		30.837 28.572	16.382 19.625	34.004 37.705	1.00 32.30 1.00 21.17
ATOM	902	CA	PHE A	425	27.563	20.165	38.618	1.00 22.12
ATOM	903	C	PHE A		26.562	21.060	37.921	1.00 23.84
ATOM ATOM	904 905	O CB	PHE A		25.358 28.265	21.088 20.943	38.232 39.744	1.00 20.50 1.00 22.81
MOTA	906	CG .	PHE A	425	28.866	20.061	40.816	1.00 24.91
ATOM	90 7 908		PHE A		28.974 29.312	18.689 20.649	40.724 41.986	1.00 20.45 1.00 24.78
ATOM ATOM	908		PHE A		29.512	17.906	41.701	1.00 24.78
ATOM	910	CE2	PHE A	425	29.849	19.888	42.999	1.00 26.28
ATOM ATOM	911 912	CZ N	PHE A ASP A	_	29.958 27.088	18.527 21.901	42.866 37.013	1.00 28.92 1.00 24.52
ATOM	913	CA	ASP A		26.215	22.841	36.274	1.00 24.95
ATOM	914	C	ASP A		25.206	22.084	35.406	1.00 24.85
ATOM ATOM	915 916	O CB	ASP A		24.035 27.115	22.490 23.764	35.318 35.443	1.00 26.21 1.00 24.42
ATOM	917	CG	ASP A		27.712	24.875	36.299	1.00 31.66

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MOTA	918	OD1	ASP A	426	27.244	25.208	37.405	1.00 32.79
ATOM	919	OD2			28.716	25.431	35.813	1.00 32.76
MOTA	920	N	MET A		25.653	21.005	34.757	1.00 22.59
ATOM	921	CA	MET A		24.719	-		
						20.177	33.979	1.00 23.55
ATOM	922	C	MET A		23.619	19.572	34.871	1.00 22.77
ATOM	923	0	MET A		22.426	19.571	34.511	1.00 22.13
MOTA	924	CB	MET A		25.382	18.953	33.318	1.00 23.77
ATOM	925	ÇG	MET A	427	26.166	19.216	32.058	1.00 39.26
ATOM	926	SD	MET A	427	27.097	17.719	31.652	1.00 33.49
ATOM	927	CE	MET A	427	28.487	18.460	30.795	1.00 41.30
ATOM	928	N	LEU A		24.041	19.061	36.022	1.00 18.69
ATOM	929	CA	LEU A		23.120	18.480	36.982	1.00 18.97
ATOM	930	C	LEU A					
				_	22.129	19.543	37.489	1.00 22.36
ATOM	931	0_	LEU A		20.945	19.276	37.539	1.00 20.87
ATOM	932	СВ	LEU A		23.827	17.857	38.196	1.00 21.39
ATOM	933	CG	LEU A		24.649	16.599	37.827	1.00 22.33
ATOM	934	CD1	LEU A	428	25.693	16.260	38.887	1.00 20.04
ATOM	935	CD2	LEU A	428	23.682	15.441	37.588	1.00 19.44
ATOM	936	N	LEU A	429	22.616	20.730	37.858	1.00 20.75
ATOM	937	CA	LEU A		21.684	21.752	38.345	1.00 21.34
ATOM	938	C	LEU A		20.771	22.255	37.222	1.00 21.01
ATOM	939	Ö	LEU A		19.608	22.572		
							37.484	1.00 22.84
MOTA	940	CB	LEU A		22.576	22.910	38.843	1.00 22.26
MOTA	941	CG	LEU A		23.274	22.672	40.180	1.00 28.42
ATOM	942		LEU A		24.433	23.668	40.299	1.00 25.07
ATOM	943	CD2			22.287	22.730	41.331	1.00 29.09
ATOM	944	N	ALA A	430	21.330	22.398	36.022	1.00 22.61
ATOM	945	CA	ALA A	430	20.459	22.904	34.935	1.00 23.01
ATOM	946	C	ALA A		19.324	21.949	34.623	1.00 22.28
ATOM	947	ŏ	ALA A		18.143	22.234	34.415	1.00 21.97
	948					23.146		
ATOM		CB	ALA A		21.351		33.718	1.00 24.63
ATOM	949	N	THR A		19.626	20.616	34.677	1.00 22.30
ATOM	950	CA	THR A		18.598	19.631	34.408	1.00 19.73
ATOM	951	С	THR A	431	17.553	19.549	35.498	1.00 20.90
ATOM	952	0	THR A	431	16.355	19.408	35.286	1.00 21.68
ATOM	953	CB	THR A	431	19.270	18.273	34.091	1.00 23.86
ATOM	954	OG1			20.179	18.438	33.003	1.00 22.73
ATOM	955	CG2	THR A		18.173	17.291	33.763	1.00 25.40
ATOM	956	N	THR A		18.044	19.673	36.746	1.00 23.40
MOTA	957	CA	THR A		17.171	19.702	37.910	1.00 21.09,
MOTA	958	C.	THR A		16.233	20.907	37.751	1.00 22.21
ATOM	959	0	THR A		15.047	20.780	38.056	1.00 21.87
MOTA	960	CB	THR A	432	17.967	19.863	39.205	1.00 20.58
ATOM	961	OG1	THR A	432	18.805	18.708	39.393	1.00 19.56
ATOM	962	CG2	THR A	432	17.000	19.978	40.401	1.00 20.00
MOTA	963	N	SER A	433	16.810	22.022	37.252	1.00 23.81
ATOM	964	CA	SER A		15.898	23.187	37.068	1.00 24.78
ATOM	965	C	SER A		14.819	22.920	36.033	1.00 27.00
ATOM	966	ŏ	SER A		13.665	23.358	36.191	1.00 33.54
ATOM	967	ČВ	SER A		16.709	24.424	36.654	1.00 33.34
ATOM	968	OG	SER A				37.647	
					17.674	24.752		1.00 29.98
ATOM	969	N	ARG A		15.148	22.167	34.984	1.00 26.97
ATOM	970	CA	ARG A		14.097	21.842	33.990	1.00 26.97
MOTA	971	С	ARG A		13.009	20.996	34.615	1.00 30.42
ATOM	972	0	ARG A		11.823	21.204	34.328	1.00 27.41
ATOM	973	CB	ARG A	434	14.752	21.167	32.801	1.00 25.33
ATOM	974	CG	ARG A	434	13.708	20.721	31.827	1.00 42.33
ATOM	975	CD	ARG A	434	12.817	21.554	31.010	1.00 49.31
ATOM	976	NE	ARG A		11.713	22.346	31.491	1.00 46.14
ATOM	977	CZ	ARG A		10.568	22.425	30.807	1.00 58.17
ATOM	978		ARG A		10.399	21.741	29.673	1.00 57.71
ATOM	979		ARG A		9.588	23.206	31.266	1.00 58.73
						20.066		
ATOM	980	N	PHE A		13.341		35.543	1.00 22.36
ATOM	981	CA	PHE A		12.293	19.277	36.179	1.00 25.31
ATOM	982	Ċ	PHE A		11.524	20.205	37.144	1.00 22.12
ATOM	983	0	PHE A		10.294	20.007	37.311	1.00 24.29
ATOM	984	CB	PHE A	435	12.909	18.077	36.894	1.00 20.35
MOTA	985	CG	PHE A	435	13.318	16.946	35.972	1.00 23.24
ATOM	986		PHE A		12.380	16.302	35.170	1.00 25.28
ATOM	987		PHE A		14.634	16.508	35.910	1.00 25.71
MOTA	988		PHE A		12.767	15.255	34.343	1.00 29.66
ATOM	989		PHE A		15.004	15.490	35.079	1.00 25.15
ATOM	990	CZ	PHE A					1.00 25.15
					14.095	14.853	34.287	
ATOM	991	N	ARG A		12.161	21.138	37.805	1.00 21.91
ATOM	992	CA	ARG A		11.422	22.028	38.727	1.00 23.44
ATOM	993	C	ARG A		10.433	22.864	37.894	1.00 26.42
ATOM	994	0	ARG A	436	9.242	22.945	38.249	1.00 27.86

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1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070	CA L C L O L CB L CG L CC L CE L NZ L N G CA G C C G C C G C C G C C C C C C C C C C	YS A YS A YS A YS A YS A YS A LU A LU A LU A LU A LU A	443 443 4443 4443 4443 4444 4444 4444		5.004 5.508 5.660 3.494 3.045 1.527 0.973 -0.512 5.621 6.194 7.704 8.215 6.115 4.686 4.491	9.421 9.465 8.400 9.093 8.904 8.662 8.749 10.629 10.712 10.362 9.621 12.170 12.479 13.951	40.939 39.490 38.883 40.933 42.433 42.419 43.885 38.862 37.520 37.666 36.854 37.043 36.566 36.334	1.00 22.02 1.00 20.78 1.00 21.28 1.00 25.46
	99999001234567890112345678901121010101111111111111111111111111111	996 CG P 997 P 998 CZ P 10001 NH P 1002 NH P 1002 NH P 1003 CA CC 1004 CC CC 1005 CC CC 1009 OE1 CC 1011 N 1012 CA CC 1011 CC	996 CG ARG A 997 CD ARG A 998 NE ARG A 1000 NH1 ARG A 1001 NH2 ARG A 1002 N GLU A 1003 CA GLU A 1004 C GLU A 1005 O GLU A 1006 CB GLU A 1007 CG GLU A 1008 CD GLU A 1010 OE2 GLU A 1011 N LEU A 1011 N LEU A 1011 C LEU A 1015 CB LEU A 1016 CG LEU A 1017 CD1 LEU A 1018 CD2 LEU A 1019 N LYS A 1019 N LYS A 1019 N LYS A 1020 CA LYS A 1021 C LYS A 1021 C LYS A 1022 O LYS A 1023 CB LYS A 1024 CG LYS A 1025 CD LYS A 1025 CD LYS A 1026 CE LYS A 1027 NZ LYS A 1027 NZ LYS A 1028 N LEU A 1030 C LEU A 1031 O LEU A 1032 CB LEU A 1033 CG LEU A 1034 CD1 LEU A 1035 CD2 LEU A 1036 N GLN A 1037 CA GLN A 1037 CA GLN A 1038 C GLN A 1037 CA GLN A 1038 C GLN A 1037 CA GLN A 1038 C GLN A 1037 CA GLN A 1040 CB GLN A 1040 CB GLN A 1040 CB GLN A 1041 CG GLN A 1040 CB GLN A 1040 CB GLN A 1041 CG GLN A 1040 CB GLN A 1055 N HIS A 1045 N HIS A 1046 CA HIS A 1047 C HIS A 1050 CG HIS A 1051 ND1 HIS A 1048 O HIS A 1049 CB HIS A 1051 ND1 HIS A 1040 CB GLN A 1041 CG GLN A 1045 N HIS A 1046 CA HIS A 1050 CG HIS A 1051 ND1 HIS A 1052 CD2 HIS A 1053 CE1 HIS A 1054 NE2 HIS A 1055 N LYS A 1056 CA LYS A 1057 C LYS A 1058 C GLU A 1060 CG GLU A	996 CG ARG A 436 997 CD ARG A 436 998 NE ARG A 436 1000 NH1 ARG A 436 1001 NH2 ARG A 436 1001 NH2 ARG A 436 1002 N GLU A 437 1003 CA GLU A 437 1004 C GLU A 437 1006 CB GLU A 437 1007 CG GLU A 437 1008 CD GLU A 437 1009 OE1 GLU A 437 1011 N LEU A 438 1012 CA LEU A 438 1013 C LEU A 438 1015 CB LEU A 438 1015 CB LEU A 438 1016 CG LEU A 438 1017 CD1 LEU A 438 1018 CD2 LEU A 438 1019 N LYS A 439 1020 CA LYS A 439 1021 C LYS A 439 1022 O LYS A 439 1022 CD LYS A 439 1023 CB LYS A 439 1024 CG LYS A 439 1025 CD LYS A 439 1025 CD LYS A 439 1026 CE LYS A 439 1027 NZ LYS A 439 1028 N LEU A 440 1030 C LEU A 440 1031 C LEU A 440 1031 C LEU A 440 1032 CB LEU A 440 1033 CG LEU A 440 1034 CD1 LEU A 440 1035 CD2 LEU A 440 1036 N GLN A 441 1040 CB GLN A 441 1041 CG GLN A 441 1041 CG GLN A 441 1042 CD GLN A 441 1043 OE1 GLN A 441 1044 NE2 GLN A 441 1045 N HIS A 442 1046 CA HIS A 442 1055 N LYS A 439 1056 CA HIS A 442 1048 O HIS A 442 1050 CG HIS A 443 1061 CD LYS A 443 1066 CG GLU A 444 1065 CA GLU A 444 1065 CA GLU A 444 1066 C GLU A 444 1066 C GLU A 444 1067 C BLYS A 443 1060 CG LYS A 443 1061 CD LYS A 443 1066 CG GLU A 444 1066 C GLU A 444 1067 C GLU A 444 1068 CG GLU A 444 1069 CG GLU A 444 1069 CG GLU A 444 1066 C GLU A 444	996 CG ARG A 436 997 CD ARG A 436 998 NE ARG A 436 1000 NH1 ARG A 436 1001 NH2 ARG A 436 1002 N GLU A 437 1003 CA GLU A 437 1004 C GLU A 437 1006 CB GLU A 437 1007 CG GLU A 437 1008 CD GLU A 437 1010 OE2 GLU A 437 1011 N LEU A 438 1012 CA LEU A 438 1011 C LEU A 438 1015 CB LEU A 438 1016 CG LEU A 438 1017 CD1 LEU A 438 1017 CD1 LEU A 438 1018 CD2 LEU A 438 1019 N LYS A 439 1020 CA LYS A 439 1021 C LYS A 439 1022 CO LYS A 439 1023 CB LYS A 439 1024 CG LYS A 439 1025 CD LYS A 439 1026 CE LYS A 439 1027 NZ LYS A 439 1026 CE LYS A 439 1027 NZ LYS A 439 1028 N LEU A 440 1030 C LEU A 440 1031 C LEU A 440 1031 C LEU A 440 1032 CB LYS A 439 1025 CD LYS A 439 1026 CE LYS A 439 1027 NZ LYS A 439 1026 CE LYS A 439 1027 NZ LYS A 439 1028 N LEU A 440 1030 C LEU A 440 1031 C LEU A 440 1031 C LEU A 440 1033 CG LEU A 440 1034 CD1 LEU A 440 1035 CD2 LEU A 440 1036 N GLN A 441 1037 CA GLN A 441 1040 CB GLN A 441 1041 NE2 GLN A 441 1043 OE1 GLN A 441 1044 NE2 GLN A 441 1045 C HIS A 442 1050 CG HIS A 442 1051 ND1 HIS A 442 1050 CG HIS A 442 1051 ND1 HIS A 442 1052 CD2 HIS A 442 1053 CEI HIS A 442 1054 NE2 HIS A 442 1055 N LYS A 443 1056 CA LYS A 443 1058 C LYS A 443 1059 CB LYS A 443 1059 CB LYS A 443 1050 CG LYS A 443 1050 CG LYS A 443 1051 ND1 HIS A 442 1052 CD LYS A 443 1053 CEI HIS A 442 1054 NE2 HIS A 442 1055 N LYS A 443 1056 CA LYS A 443 1057 CB LYS A 443 1058 C LYS A 443 1059 CB LYS A 443 1059 CB LYS A 443 1059 CB LYS A 443 1050 CG LYS A 443 1060 CG LYS A 443 1060 CG LYS A 443 1060 CG LYS A 444 1066 C GLU A 444 1066 C GLU A 444 1067 O GLU A 444 1068 CB GLU A 444 1069 CG GLU A 444 1066 CG GLU A 444 1066 CG GLU A 444 1066 CG GLU A 444 1067 O GLU A 444 1068 CB GLU A 444 1069 CG GLU A 444 1060 CD GLU A 444	996 CG ARG A 436 11.670 997 CD ARG A 436 12.636 998 NE ARG A 436 13.845 999 CZ ARG A 436 15.097 1000 NH1 ARG A 436 15.592 1001 NH2 ARG A 436 15.982 1002 N GLU A 437 10.904 1003 CA GLU A 437 10.905 1004 C GLU A 437 7.668 1006 CB GLU A 437 7.668 1006 CB GLU A 437 11.831 1007 CG GLU A 437 12.911 1009 OEI GLU A 437 12.911 1009 OEI GLU A 437 12.911 1009 OEI GLU A 437 12.991 1010 OE2 GLU A 437 12.991 1011 N LEU A 438 9.020 1012 CA LEU A 438 7.122 1014 O LEU A 438 7.122 1014 O LEU A 438 7.122 1014 O LEU A 438 7.122 1015 CB LEU A 438 7.122 1016 CG LEU A 438 8.842 1017 CD1 LEU A 438 8.842 1017 CD1 LEU A 438 9.491 1018 CD2 LEU A 438 9.491 1018 CD2 LEU A 438 9.491 1019 N LYS A 439 6.850 1021 C LYS A 439 6.634 1022 O LYS A 439 6.634 1022 O LYS A 439 6.634 1022 CG LYS A 439 5.570 1024 CG LYS A 439 4.111 1027 NZ LYS A 439 4.111 1031 C LEU A 440 7.745 1030 C LEU A 440 7.745 1031 C LEU A 440 7.745 1033 CG LEU A 440 9.491 1034 CDL LEU A 440 9.491 1034 CDL LEU A 440 9.491 1034 CDL LEU A 440 9.491 1035 CB LEU A 440 9.257 1033 CG LEU A 440 9.257 1033 CG LEU A 440 9.491 1034 CDL GAN A 441 6.261 1037 CA GLN A 441 6.361 1039 C GLN A 441 6.363 1040 CB GLN A 441 6.343 1039 C GLN A 441 6.343 1039 C GLN A 441 6.361 1040 CB GLN A 441 6.956 1052 CDD LYS A 443 5.508 1056 CA LYS A 443 5.508 1056 CA LYS A 443 5.508 1057 CB LYS A 443 5.508 1058 CG HIS A 442 6.558 1066 CG LYS A 443 5.508 1059 CB LYS A 443 5.508 1059 CB LYS A 443 5.508 1050 CG HIS A 442 6.558 1066 CA LYS A 443 5.606 1050 CG GLU A 444 6.156 1067 CG GLU A 444 6.156 1068 CB GLU A 444 6.156 1069 CG GLU A 444 6.156 1069 CG GLU A 444 6.6166 1060 CG GLU A 444 6.6166 1060 CG GLU A 444 6.6166 1070 CD GLU A 444 6.6166	996 CG ARG A 436 997 CD ARG A 436 11.670 23.942 998 NE ARG A 436 13.845 24.503 999 CZ ARG A 436 15.097 44.584 1000 NH1 ARG A 436 15.982 23.795 1002 N GLU A 437 10.005 24.217 1004 C GLU A 437 10.005 24.217 1004 C GLU A 437 10.005 24.217 1006 CB GLU A 437 1006 CB GLU A 437 1007 CG GLU A 437 1008 CD GLU A 437 1009 CEI GLU A 437 1009 CEI GLU A 437 10010 OE2 GLU A 437 1010 OE2 GLU A 437 1010 OE2 GLU A 437 1011 N LEU A 438 1012 CA LEU A 438 1013 C LEU A 438 1014 O LEU A 438 1015 CB LEU A 438 1016 CG LEU A 438 1016 CG LEU A 438 1016 CG LEU A 438 1017 CDI LEU A 438 1018 CD2 LEU A 438 1019 N LYS A 439 1020 CA LYS A 439 1020 CA LYS A 439 1021 C LYS A 439 1022 CB LYS A 439 1024 CG LYS A 439 1025 CB LEU A 440 1026 CB LEU A 440 1027 NZ LYS A 439 1027 NZ LYS A 439 1028 N LEU A 440 1030 C LEU A 440 1031 C CB LEU A 440 1031 C CB LEU A 440 1032 CB LYS A 439 1025 CB LEU A 440 1026 CB LEU A 440 1027 NZ LYS A 439 1027 NZ LYS A 439 1028 N LEU A 440 1039 C LEU A 440 1030 C LEU A 440 1031 C LEU A 440 1031 C LEU A 440 1032 CB LEU A 440 1033 CB LEU A 440 1036 CB GLU A 440 1037 CA GLU A 440 1039 CB LEU A 440 1031 C LEU A 440 1041 CB GLU A 444 1051 CB LEU A 440 1051 CB LEU A 440 1051 CB LEU A 440 1051 CB	996 CG ARG A 436

ATOM 1077 CB TYR A 445 10.224 11.291 40.206 1.00 20.96 ATOM 1078 CG TYR A 445 11.366 10.659 40.969 1.00 24.17 ATOM 1079 CD1 TYR A 445 12.643 10.727 40.420 1.00 26.90 ATOM 1080 CD2 TYR A 445 11.166 10.029 42.192 1.00 22.07 ATOM 1081 CE1 TYR A 445 13.727 10.156 41.087 1.00 22.98 ATOM 1082 CE2 TYR A 445 12.249 9.453 42.829 1.00 26.07 ATOM 1083 CZ TYR A 445 13.491 9.528 42.285 1.00 25.04	000000000000000000000000000000000000000
ATOM 1080 CD2 TYR A 445 11.166 10.029 42.192 1.00 22.07 ATOM 1081 CE1 TYR A 445 13.727 10.156 41.087 1.00 22.98 ATOM 1082 CE2 TYR A 445 12.249 9.453 42.829 1.00 26.07	000000000
	00200
ATOM 1084 OH TYR A 445 14.586 8.970 42.950 1.00 33.42	И С О
ATOM 1085 N LEU A 446 9.105 8.389 39.995 1.00 18.03 ATOM 1086 CA LEU A 446 9.240 6.938 40.102 1.00 24.19	0
ATOM 1087 C LEU A 446 9.232 6.239 38.755 1.00 18.83 ATOM 1088 O LEU A 446 10.038 5.315 38.475 1.00 20.62	C
ATOM 1089 CB LEU A 446 8.090 6.364 40.975 1.00 23.00 ATOM 1090 CG LEU A 446 8.104 7.007 42.394 1.00 27.50 ATOM 1091 CD1 LEU A 446 6.864 6.568 43.165 1.00 30.48	č
ATOM 1092 CD2 LEU A 446 9.360 6.584 43.147 1.00 27.81 ATOM 1093 N CYS A 447 8.256 6.568 37.863 1.00 19.93	C N
ATOM 1094 CA CYS A 447 8.172 5.920 36.591 1.00 21.27 ATOM 1095 C CYS A 447 9.414 6.235 35.722 1.00 18.48	C
ATOM 1096 O CYS A 447 9.908 5.341 35.061 1.00 19.17 ATOM 1097 CB CYS A 447 6.956 6.313 35.775 1.00 20.29 ATOM 1098 SG CYS A 447 5.415 5.811 36.632 1.00 21.69	0 C S
ATOM 1099 N VAL A 448 9.811 7.509 35.655 1.00 18.45 ATOM 1100 CA VAL A 448 10.988 7.806 34.826 1.00 20.08	йС
ATOM 1101 C VAL A 448 12.245 7.095 35.280 1.00 21.79 ATOM 1102 O VAL A 448 13.002 6.560 34.466 1.00 19.53	0
ATOM 1103 CB VAL A 448 11.152 9.358 34.853 1.00 24.07 ATOM 1104 CG1 VAL A 448 12.507 9.721 34.360 1.00 28.67 ATOM 1105 CG2 VAL A 448 10.025 9.856 33.907 1.00 29.43	С С
ATOM 1106 N LYS A 449 12.452 7.021 36.602 1.00 18.71 ATOM 1107 CA LYS A 449 13.626 6.290 37.101 1.00 17.39	N C
ATOM 1108 C LYS A 449 13.652 4.857 36.649 1.00 23.94 ATOM 1109 O LYS A 449 14.646 4.251 36.178 1.00 18.35 ATOM 1110 CB LYS A 449 13.698 6.454 38.640 1.00 21.62	0
ATOM 1110 CB LYS A 449 13.698 6.454 38.640 1.00 21.62 ATOM 1111 CG LYS A 449 15.080 5.973 39.135 1.00 23.58 ATOM 1112 CD LYS A 449 15.285 6.410 40.580 1.00 26.52	000
ATOM 1113 CE LYS A 449 14.188 5.858 41.501 1.00 25.87 ATOM 1114 NZ LYS A 449 14.611 5.765 42.945 1.00 26.92	C N
ATOM 1115 N ALA A 450 12.478 4.190 36.703 1.00 18.50 ATOM 1116 CA ALA A 450 12.323 2.831 36.260 1.00 21.41 ATOM 1117 C ALA A 450 12.563 2.711 34.783 1.00 20.13	N C C
ATOM 1118 O ALA A 450 13.206 1.738 34.329 1.00 18.60 ATOM 1119 CB ALA A 450 10.985 2.198 36.684 1.00 20.44	000
ATOM 1120 N MET A 451 12.139 3.721 33.968 1.00 18.77 ATOM 1121 CA MET A 451 12.358 3.655 32.570 1.00 18.14	N C
ATOM 1122 C MET A 451 13.877 3.727 32.260 1.00 17.57 ATOM 1123 O MET A 451 14.311 3.045 31.322 1.00 20.73 ATOM 1124 CB MET A 451 11.633 4.842 31.842 1.00 21.77	0 C
ATOM 1125 CG MET A 451 10.131 4.584 32.084 1.00 27.69 ATOM 1126 SD MET A 451 9.016 5.929 31.603 1.00 34.64	c s
ATOM 1127 CE MET A 451 9.857 6.385 30.106 1.00 35.01 ATOM 1128 N ILE A 452 14.588 4.498 33.024 1.00 16.50 ATOM 1129 CA ILE A 452 16.037 4.640 32.828 1.00 17.08	С И С
ATOM 1130 C ILE A 452 16.654 3.246 32.962 1.00 20.78 ATOM 1131 O ILE A 452 17.508 2.878 32.158 1.00 19.75	C
ATOM 1132 CB ILE A 452 16.625 5.638 33.802 1.00 19.19 ATOM 1133 CG1 ILE A 452 16.292 7.107 33.388 1.00 17.81 ATOM 1134 CG2 ILE A 452 18.162 5.500 33.943 1.00 20.76	c c
ATOM 1134 CG2 1EE A 432 16.162 3.300 33.343 1.00 20.76 ATOM 1135 CD1 ILE A 452 16.477 8.045 34.585 1.00 21.82 ATOM 1136 N LEU A 453 16.259 2.506 33.992 1.00 19.70	C N
ATOM 1137 CA LEU A 453 16.809 1.164 34.201 1.00 21.38 ATOM 1138 C LEU A 453 16.452 0.220 33.063 1.00 22.74	C.C
ATOM 1139 O LEU A 453 17.339 -0.447 32.508 1.00 23.04 ATOM 1140 CB LEU A 453 16.272 0.592 35.526 1.00 20.23 ATOM 1141 CG LEU A 453 16.436 -0.933 35.734 1.00 23.99	0 0 0
ATOM 1142 CD1 LEU A 453 17.861 -1.311 35.991 1.00 24.30 ATOM 1143 CD2 LEU A 453 15.585 -1.366 36.938 1.00 30.09	C
ATOM 1144 N LEU A 454 15.173 0.257 32.658 1.00 18.55 ATOM 1145 CA LEU A 454 14.763 -0.675 31.599 1.00 20.55 ATOM 1146 C LEU A 454 15.129 -0.287 30.191 1.00 22.40	N C C
ATOM 1146 C LEG A 454 15.125 -0.287 30.191 1.00 22.40 ATOM 1147 O LEU A 454 15.126 -1.229 29.347 1.00 25.90 ATOM 1148 CB LEU A 454 13.230 -0.867 31.745 1.00 21.21	000

ATOM	1149	CG	T ETT	· 454	12.728	1 210	22 126	1 00 24 00
ATOM	1150	CD1			11.213		33.126 33.221	1.00 24.00 1.00 23.17
ATOM	1151	CD2	LEU	454	13.163	-2.762	33.390	1.00 24.11
ATOM	1152	N		455	15.439		29.912	1.00 20.57
ATOM ATOM	1153 1154	CA C	ASN A		15.704 17.175		28.552 28.246	1.00 26.20 1.00 27.11
ATOM	1155	ō	ASN A		17.552		27.088	1.00 27.11
ATOM	1156	CB	ASN A		14.976		28.371	1.00 31.10
ATOM	1157	CG	ASN A		15.173	3.511	27.043	1.00 38.22
ATOM ATOM	1158 1159	OD1 ND2			15.592 14.858	4.701 2.842	26.960 25.935	1.00 37.37 1.00 34.72
ATOM	1160	N		456	17.997	1.775	29.258	1.00 34.72
ATOM	1161	CA	SER A		19.382	2.119	29.231	1.00 36.00
MOTA	1162 1163	C	SER A		20.311	1.573	28.153	1.00 36.83
ATOM ATOM	1164	O CB	SER A		21.062 20.038	2.288 1.689	27.473 30.582	1.00 33.20 1.00 39.77
ATOM	1165	OG	SER A		19.588	0.394	31.044	1.00 37.99
ATOM	1166	N	ALA A		20.318	0.245	28.192	1.00 35.54
MOTA ATOM	1167 1168	CA C	ALA A		21.274 21.142	-0.464	27.352	1.00 42.47
MOTA	1169	ŏ	ALA A		20.080	-0.038 0.110	25.896 25.316	1.00 41.31 1.00 44.55
MOTA	1170	CB	ALA A		21.235	-1.963	27.524	1.00 40.51
ATOM	1171	N	MET A		22.311	0.172	25.315	1.00 46.24
ATOM ATOM	1172 1173	CA C	MET A		22.508 22.623	0.547 -0.689	23.933 23.027	1.00 48.76 1.00 53.25
ATOM	1174	ŏ	MET A		22.945	-1.782	23.501	1.00 58.48
ATOM	1175	CB	MET A	458	23.841	1.294	23.819	1.00 47.06
ATOM	1176 1177	CG	MET A		23.888	2.585	24.618	1.00 44.75
ATOM ATOM	1177	SD CE	MET A		22.827 23.515	3.882 4.064	23.950 22.295	1.00 37.82 1.00 37.93
ATOM	1179	N	ALA A			-14.119	24.676	1.00 60.19
MOTA	1180	CA	ALA A		11.449		25.833	1.00 60.72
ATOM ATOM	1181 1182	C	ALA A			-13.355 -12.627	26.943 27.414	1.00 60.69 1.00 63.87
ATOM	1183	СB	ALA A		11.405	-15.721	26.368	1.00 63.87
ATOM	1184	N	SER A	470	13.153	-13.392	27.347	1.00 59.40
ATOM	1185	CA	SER A		13.620	-12.423	28.348	1.00 57.12
ATOM ATOM	1186 1187	C	SER A			-11.061 -10.174	27.661 28.142	1.00 58.67 1.00 57.72
ATOM	1188	CB	SER A		15.066	-12.641	28.751	1.00 56.65
ATOM	1189	OG	SER A			-11.735	29.774	1.00 53.66
ATOM ATOM	1190 1191	N CA	SER A		13.997 13.866	-10.972 -9.803	26.450 25.607	1.00 60.93 1.00 60.15
ATOM	1192	C	SER A		12.387	-9.446	25.460	1.00 60.13
MOTA	1193	0	SER A	471	12.018	-8.291	25.674	1.00 59.07
ATOM ATOM	1194 1195	CB OG	SER A			-10.007	24.210 23.313	1.00 60.90 1.00 63.44
ATOM	1196	N	ARG A		13.824 11.523	-9.104 -10.412	25.150	1.00 63.44 1.00 61.18
ATOM	1197	CA	ARG A	472	10.091	-10.111	25.031	1.00 61.86
ATOM	1198	C	ARG A		9.455	-9.705	26.351	1.00 55.71
ATOM ATOM	1199 1200	O CB	ARG A		8.492 9.415	-8.942 -11.346	26.430 24.439	1.00 55.98 1.00 66.43
MOTA	1201	CG	ARG A			-11.320	24.439	1.00 71.44
ATOM	1202	CD	ARG A			-12.571	23.765	1.00 75.25
ATOM ATOM	1203 1204	NE CZ	ARG A			-13.690 -14.781	23.790 23.045	1.00 77.23 1.00 79.57
ATOM	1205		ARG A			-14.977	22.145	1.00 80.41
MOTA	1206		ARG A			-15.705	23.192	1.00 79.36
ATOM ATOM	1207 1208	N CA	LYS A		9.959 9.497	-10.212 -9.883	27.461 28.804	1.00 52.42 1.00 52.83
ATOM	1209	C	LYS A		9.945	-8.463	29.166	1.00 48.89
ATOM	1210	0	LYS A		9.187	-7.725	29.794	1.00 51.86
MOTA MOTA	1211 1212	CB CG	LYS A			-10.914 -11.534	29.790 30.696	1.00 56.33 1.00 59.83
ATOM	1213	CD	LYS A			-12.925	31.140	1.00 53.83
MOTA	1214	CE	LYS A		8.378	-13.586	32.024	1.00 63.15
MOTA	1215	NZ	LYS A			-14.867	32.606	1.00 65.28
MOTA MOTA	1216 1217	N CA	LEU A		11.144 11.679	-8.065 -6.734	28.738 28.989	1.00 45.57 1.00 43.81
MOTA	1218	C	LEU A	474	10.823	-5.675	28.309	1.00 45.51
ATOM	1219	O	LEU A		10.280	-4.751	28.917	1.00 40.26
MOTA MOTA	1220 1221	CB CG	LEU A		13.135 13.753	-6.592 -5.187	28.503 28.638	1.00 42.11 1.00 39.15
ATOM	1222		LEU A		13.733	-4.693	30.088	1.00 34.72
MOTA	1223		LEU A		15.201	-5.159	28.185	1.00 34.37
MOTA MOTA	1224 1225	N CA	ALA A		10.584 9.787	-5.830 -4.953	27.004 26.164	1.00 42.52 1.00 41.94
				- , -	2.707	2.,,,,		

ATOM ATOM ATOM ATOM ATOM ATOM	1226 1227 1228 1229 1230 1231	C O CB N CA	ALA A ALA A ALA A HIS A HIS A	475 475 476 476	8.452 7.891 9.517 7.859 6.609 6.640	-4.581 -3.490 -5.761 -5.612 -5.656 -4.990	26.793 26.828 24.884 27.354 28.053 29.425	1.00 41.48 1.00 45.13 1.00 41.45 1.00 44.24 1.00 48.12 1.00 42.60
ATOM ATOM ATOM	1232 1233 1234	O CB CG	HIS A HIS A HIS A	476 476	5.672 6.243 5.008	-4.359 -7.140 -7.310	29.830 28.168 28.990	1.00 39.37 1.00 54.04 1.00 55.91
ATOM ATOM ATOM	1235 1236 1237	CD2	HIS A HIS A HIS A	476	5.063 3.716 3.835	-7.803 -7.013 -7.821	30.275 28.733 30.770	1.00 59.64 1.00 58.19 1.00 60.13
ATOM ATOM ATOM	1238 1239 1240	NE2 N CA	HIS A LEU A LEU A	477	2.996 7.757 7.937	-7.351 -5.132 -4.489	29.856 30.124 31.425	1.00 58.29 1.00 41.27 1.00 38.48
ATOM ATOM ATOM	1241 1242 1243	C O CB	LEU A LEU A LEU A	477 477	8.000 7.353 9.229	-2.966 -2.117 -4.994	31.201 31.820 32.078	1.00 30.49 1.00 31.42 1.00 37.51
ATOM ATOM	1244 1245 1246	CG CD1	LEU A LEU A	477 477	9.565 8.323	-4.461 -4.147	33.471 34.302	1.00 44.59 1.00 42.81
ATOM ATOM ATOM	1247 1248	CD2 N CA	LEU A LEU A	478 478	10.487 8.786 8.993	-5.429 -2.632 -1.262	34.227 30.194 29.749	1.00 40.95 1.00 31.48 1.00 33.28
MOTA MOTA ATOM	1249 1250 1251	C O CB	LEU A LEU A	478 478	7.676 7.328 10.130	-0.674 0.441 -1.139	29.290 29.722 28.730	1.00 33.35 1.00 30.92 1.00 31.10
ATOM ATOM ATOM	1252 1253 1254	CD2	LEU A LEU A LEU A	478 478	10.375 10.866 11.333	0.295 1.210 0.415	28.241 29.382 27.084	1.00 34.76 1.00 32.74 1.00 33.23
ATOM ATOM ATOM	1255 1256 1257	N CA C	ASN A ASN A	479 479	6.888 5.578 4.662	-1.392 -0.880 -0.638	28.480 28.099 29.299	1.00 34.95 1.00 35.98 1.00 28.84
ATOM ATOM ATOM	1258 1259 1260	O CB CG	ASN A ASN A ASN A	479 479	3.970 4.908 5.611	0.359 -1.837 -1.804	29.338 27.092 25.735	1.00 29.63 1.00 42.20 1.00 48.35
ATOM ATOM ATOM	1261 1262 1263	OD1 ND2 N	ASN A ASN A ALA A	479	5.951 5.801 4.651	-0.721 -3.025 -1.498	25.237 25.210 30.311	1.00 47.39 1.00 50.10 1.00 33.47
ATOM ATOM ATOM	126 4 1265 1266	CA C O	ALA A ALA A ALA A	480 480	3.829 4.228 3.352	-1.276 -0.030 0.665	31.503 32.259 32.801	1.00 30.90 1.00 23.64 1.00 26.15
ATOM ATOM ATOM	1267 1268 1269	CB N CA	ALA A VAL A VAL A	481	3.908 5.553 5.960	-2.526 0.298 1.470	32.390 32.353 33.122	1.00 34.69 1.00 23.24 1.00 22.74
ATOM ATOM ATOM	1270 1271 1272	C O CB	VAL A VAL A VAL A	481 481	5.517 5.153 7.469	2.722 3.729 1.529	32.351 32.942 33.436	1.00 18.06 1.00 26.87 1.00 27.05
ATOM ATOM ATOM	1273 1274 1275	CG1 CG2 N	VAL A VAL A THR A	481	7.838 7.910 5.655	2.847 0.314 2.689	34.155 34.266 31.030	1.00 23.49 1.00 28.60 1.00 23.57
ATOM ATOM ATOM	1276 1277 1278	CA C O	THR A THR A THR A	482 482	5.220 3.721 3.225	3.783 4.017 5.112	30.154 30.327 30.645	1.00 26.39 1.00 22.53 1.00 23.67
ATOM ATOM ATOM	1279 1280 1281	CB OG1 CG2	THR A	482 482	5.588 6.974 5.230	3.436 3.215 4.522	28.695 28.498 27.698	1.00 31.20 1.00 32.83 1.00 33.29
ATOM ATOM ATOM	1282 1283 1284	N CA C	ASP A ASP A	483 483	2.917 1.471 1.177	2.922 3.068 3.699	30.355 30.599 31.933	1.00 27.94 1.00 29.23 1.00 25.55
ATOM ATOM ATOM	1285 1286 1287	O CB CG	ASP A ASP A ASP A	483 483	0.289 0.689 0.420	4.539 1.742 1.189	32.087 30.578 29.200	1.00 31.75 1.00 33.31 1.00 37.11
ATOM ATOM ATOM	1288 1289 1290	OD2 N	ASP A ASP A ALA A	483 484	0.338 0.243 1.984	1.935 -0.048 3.364	28.199 29.064 32.957	1.00 38.37 1.00 40.00 1.00 25.28
ATOM ATOM	1291 1292 1293	CA C O	ALA A ALA A	484 484	1.859 2.129 1.476	3.856 5.346 6.126	34.306 34.356 35.054	1.00 23.57 1.00 22.08 1.00 26.22
ATOM ATOM ATOM	1294 1295 1296	CB N CA	ALA A LEU A LEU A	485 485	2.811 3.192 3.525 2.364	3.100 5.769 7.206 7.896	35.251 33.625 33.576 32.849	1.00 22.07 1.00 26.30 1.00 20.03 1.00 22.17
ATOM ATOM ATOM ATOM	1297 1298 1299 1300	C O CB CG	LEU A LEU A LEU A	485 485	1.940 4.842 5.232	8.956 7.395 8.863	32.849 33.304 32.776 32.522	1.00 22.17 1.00 26.47 1.00 20.92 1.00 21.92
ATOM ATOM	1301 1302	CD1	LEU A	485	5.387 6.554	9.644 8.878	33.822 31.721	1.00 23.10 1.00 22.61

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323	CG2 N CA C O CB CG CD1 CD2 NE1 CE2 CE3 CZ2	TRP A 487 TRP A 487	-0.459 -1.137 0.450 -0.889 1.555 -0.704 -1.813 -1.595 -2.490 -1.961 -2.952 -4.312 -2.695 -4.915 -3.942 -1.551 -4.056 -1.675	7.319 7.946 8.062 9.081 7.134 7.515 7.198 7.029 8.089 5.5861 5.5861 5.5845 5.5845 5.5845 5.5845 5.5845	31.775 31.037 31.975 32.037 29.781 29.131 28.723 32.786 33.747 34.799 35.094 35.502 35.367 36.900 36.603 37.670 38.947 39.047 39.689	1.00 27.15 1.00 27.86 1.00 27.38 1.00 30.67 1.00 31.08 1.00 34.82 1.00 29.27 1.00 29.86 1.00 33.05 1.00 36.27 1.00 33.38 1.00 32.60 1.00 37.95 1.00 43.97 1.00 35.97 1.00 37.38 1.00 41.60 1.00 36.56 1.00 40.06 1.00 42.43
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1337 1338 1339 1340	N CA C O CB CG1 CG2 CD1 N CA CA	VAL A 488 VAL A 489 ILE A 489	-0.324 -0.071 -0.300 -0.775 1.404 1.628 0.120 -0.044 -1.572 -2.028 0.659 2.205 0.349 2.871 -2.197 -3.661	8.225 9.273 10.651 11.526 9.226 10.401 7.908 10.908 12.233 12.521 13.610 12.310 12.283 13.603 11.911 11.421 11.609	35.293 36.250 35.669 36.805 37.545 34.411 33.849 33.604 33.910 32.756 31.762 31.416 33.241 32.971	1.00 27.97 1.00 38.05
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1341 1342 1343 1344 1345 1346 1347 1348 1350 1351 1352 1353 1355 1357 1358	NZ N CA C O CB OG	ALA A 490 ALA A 490 ALA A 490 LYS A 491 SER A 492	-2.631 -3.923 -3.912 -5.139 -5.478 -2.639 -2.727	9.101 14.308 15.741 16.352 17.525 16.378 16.210	41.881 36.410 36.672 35.960 36.050 36.086 34.657	1.00 40.03 1.00 44.53 1.00 32.57 1.00 41.28 1.00 39.88 1.00 40.95 1.00 46.07 1.00 46.19 1.00 49.83 1.00 53.59 1.00 55.67 1.00 36.18 1.00 37.48 1.00 40.92 1.00 35.10 1.00 35.62
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1359 1360 1361 1362 1363 1365 1366 1367 1368 1370 1371 1372 1373 1374 1375 1377 1378	CG2	GLY A 493 GLY A 493 GLY A 493 ILE A 494 ILE A 495 SER A 496 SER A 496 SER A 496 SER A 496	-5.740 -6.895 -6.682 -7.654 -5.456 -5.212 -5.6950 -3.734 -2.877 -3.387 -1.378 -5.440 -4.258 -6.712 -5.497 -6.0253 -4.047	15.560 15.878 16.956 17.652 17.078 18.106 17.494 16.286 18.543 17.319 19.189 17.458 18.311 17.762 16.781 18.859 19.492 16.067 15.104 15.740	35.084 34.283 33.240 32.910 32.727 31.690 30.399 31.664 31.371 33.002 31.570 29.352 28.115 27.479 27.857 27.106 26.741 26.511 25.744 25.068	1.00 38.75 1.00 42.90 1.00 43.44 1.00 40.48 1.00 35.87 1.00 33.56 1.00 30.12 1.00 32.80 1.00 36.79 1.00 31.42 1.00 37.06 1.00 37.06 1.00 35.83 1.00 41.15 1.00 35.53 1.00 39.81 1.00 49.43 1.00 39.16

MOTA	1380	0	SER A	496	-2.997	15.075	25.065	1.00 32.27
ATOM	1381	CB	SER A		-6.165	14.425	24.705	1.00 45.71
MOTA	1382	OG	SER A		-6.874	15.475	24.036	1.00 58.28
MOTA	1383	,N	GLN A	497	-4.163	16.920	24.486	1.00 33.62
ATOM	1384	CA	GLN A	497	-3.013	17.537	23.846	1.00 30.60
ATOM	1385	C	GLN A		-1.903	17.799	24.866	1.00 27.01
				•				
MOTA	1386	0	GLN A		-0.712	17.722	24.566	1.00 25.03
MOTA	1387	CB	GLN A	497	-3.450	18.912	23.304	1.00 29.67
ATOM	1388	CG	GLN A	497	-2.408	19.547	22.388	1.00 27.55
ATOM	1389	CD	GLN A		-1.449	20.438	23.130	1.00 34.92
MOTA	1390	OE1	GLN A		-1.807	20.960	24.189	1.00 40.14
ATOM	1391	NE2	GLN A	497	-0.228	20.613	22.652	1.00 32.44
ATOM	1392	N	GLN A	498	-2.270	18.326	26.042	1.00 26.37
ATOM	1393	CA	GLN A	498	-1.342	18.677	27.107	1.00 28.55
MOTA	1394	C	GLN A		-0.738	17.413	27.727	1.00 26.58
MOTA	1395	0	GLN A		0.435	17.482	28.207	1.00 26.30
ATOM	1396	CB	GLN A	498	-1.952	19.578	28.196	1.00 33.52
ATOM	1397	CG	GLN A	498	-2.140	21.027	27.725	1.00 38.85
ATOM	1398	CD	GLN A		-0.799	21.708	27.516	1.00 44.43
	1399				-0.054	21.850	28.497	
ATOM		OE1						1.00 49.42
ATOM	1400	NE2			-0.496	22.141	26.294	1.00 39.08
ATOM	1401	N	GLN A	499	-1.450	16.296	27.726	1.00 26.16
ATOM	1402	CA	GLN A		-0.911	15.050	28.276	1.00 26.49
ATOM	1403	C	GLN A		0.242	14.556	27.407	1.00 31.44
ATOM	1404	0	GLN A		1.226	14.057	27.933	1.00 26.52
ATOM	1405	CB	GLN A	499	-1.931	13.910	28.339	1.00 30.42
ATOM	1406	CG	GLN A	499	-2.997	14.113	29.400	1.00 31.96
ATOM	1407	CD	GLN A		-3.974	12.950	29.393	1.00 41.30
			GLN A			11.776		
ATOM	1408				-3.628		29.317	1.00 40.19
ATOM	1409	NE2	GLN A	499	-5.267	13.267	29.460	1.00 41.59
ATOM	1410	N	SER A	500	0.064	14.631	26.086	1.00 25.27
ATOM	1411	CA	SER A		1.083	14.229	25.133	1.00 29.39
	1412		SER A		2.292	15.157	25.229	1.00 25.24
ATOM		C						
ATOM	1413	0	SER A		3.425	14.688	25.136	1.00 24.41
ATOM	1414	CB	SER A	500 ·	0.574	14.277	23.690	1.00 28.59
ATOM	1415	OG	SER A	500	-0.409	13.240	23.513	1.00 34.11
ATOM	1416	N	MET A		2.048	16.461	25.413	1.00 24.36
ATOM	1417	CA	MET A		3.145	17.410	25.539	1.00 25.98
ATOM	1418	С	MET A	501	3.920	17.119	26.823	1.00 26.81
ATOM	1419	0	MET A	501	5.158	17.203	26.791	1.00 23.19
ATOM	1420	СВ	MET A		2.697	18.890	25.502	1.00 30.80
								1.00 46.15
ATOM	1421	CG	MET A		3.552	19.758	24.600	
ATOM	1422	SD	MET A	501	3.103	19.769	22.874	1.00 47.15
ATOM	1423	CE	MET A	501	2.464	18.152	22.499	1.00 52.53
ATOM	1424	N	ARG A	502	3.230	16.759	27.895	1.00 20.36
ATOM	1425	CA	ARG A		3.927	16.549	29.173	1.00 22.08
MOTA	1426	C	ARG A		4.758	15.264	29.102	1.00 21.26
ATOM	1427	0	ARG A		5.910	15.222	29.533	1.00 22.71
ATOM	1428	CB	ARG A	502	2.897	16.497	30.329	1.00 23.98
ATOM	1429	CG	ARG A	502	3.628	16.378	31.664	1.00 24.01
ATOM	1430	CD	ARG A		2.730	16.533	32.892	1.00 27.06
ATOM	1431		ARG A		3.540	16.593	34.105	1.00 23.61
		NE						
ATOM	1432	cz	ARG A		4.211	17.635	34.552	1.00 22.53
ATOM	1433		ARG A		4.895	17.470	35.711	1.00 26.82
ATOM	1434	NH2	ARG A	502	4.218	18.780	33.907	1.00 22.56
ATOM	1435	N	LEU A	503	4.162	·14.232	28.466	1.00 19.02
ATOM	1436	CA	LEU A		4.925	12.986	28.284	1.00 21.30
							27.421	
ATOM	1437	C	LEU A		6.138	13.260		1.00 23.43
ATOM	1438	0	LEU A		7.292	12.886	27.742	1.00 19.06
ATOM	1439	CB	LEU A	503	3.966	11.989	27.615	1.00 25.98
MOTA	1440	CG	LEU A		4.535	10.636	27.243	1.00 22.62
ATOM	1441		LEU A		5.053	9.898	28.501	1.00 21.09
ATOM	1442		LEU A		3.433	9.776	26.604	1.00 23.95
ATOM	1443	N	ALA A		5.963	14.019	26.321	1.00 18.94
ATOM	1444	CA	ALA A	504	7.116	14.256	25.459	1.00 20.93
ATOM	1445	C	ALA A		8.182	15.057	26.200	1.00 22.24
			ALA A		9.386	14.873	26.026	1.00 22.41
ATOM	1446	0						
ATOM	1447	CB	ALA A		6.684	15.142	24.288	1.00 26.47
ATOM	1448	N	ASN A	505	7.748	16.098	26.956	1.00 19.01
ATOM	1449	CA	ASN A	505	8.708	16.944	27.653	1.00 24.23
	•	C	ASN A		9.551	16.177	28.690	1.00 24.35
	1470				10.755	16.445	28.839	
ATOM	1450	\sim	יי זגים ע					
ATOM	1451	0	ASN A					1.00 22.02
MOTA MOTA	1451 1452	СВ	ASN A	505	8.055	18.097	28.416	1.00 25.76
ATOM	1451 1452 1453	CB CG	ASN A	505 505	8.055 7.840	18.097 19.266	28.416 27.443	1.00 25.76 1.00 36.96
MOTA MOTA	1451 1452	CB CG	ASN A	505 505	8.055 7.840 8.741	18.097	28.416	1.00 25.76 1.00 36.96 1.00 38.16
ATOM ATOM ATOM ATOM	1451 1452 1453 1454	CB CG OD1	ASN A ASN A	505 505 505	8.055 7.840 8.741	18.097 19.266	28.416 27.443	1.00 25.76 1.00 36.96
ATOM ATOM ATOM	1451 1452 1453	CB CG OD1	ASN A	505 505 505 505	8.055 7.840	18.097 19.266 19.470	28.416 27.443 26.630	1.00 25.76 1.00 36.96 1.00 38.16

ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1457 1458 1459 1460 1461 1462 1463	C I O I CB I CG I CD1 I CD2 I	LEU A LEU A LEU A LEU A LEU A LEU A	506 506 506 506 506 506 507	9.589 10.539 11.696 8.592 7.680 6.606 8.442 10.084	14.516 13.552 13.419 13.707 14.476 13.555 15.065 12.890	30.450 29.784 30.231 31.278 32.230 32.781 33.422 28.683	1.00 20.82 1.00 20.11 1.00 21.17 1.00 19.79 1.00 22.72 1.00 23.93 1.00 26.30 1.00 19.88
ATOM ATOM	1465 1466	C I	LEU A	507	10.988 12.076	11.929 12.613	28.063 27.268	1.00 21.64 1.00 22.05
ATOM ATOM	1467 1468		LEU A		13.121 10.181	11.940 10.891	27.163 27.265	1.00 25.18 1.00 19.48
MOTA	1469	CG I	LEU A	507	9.165	10.148	28.158	1.00 26.42
ATOM ATOM	1470 1471		LEU A		8.420 9.853	9.135 9.479	27.311 29.339	1.00 28.63 1.00 25.64
ATOM	1472	N M	MET A	508	11.877	13.849	26.818	1.00 16.93
ATOM ATOM	1473 1474		MET A		12.986 14.076	14.496 14.811	26.123 27.154	1.00 23.08 1.00 28.54
ATOM	1475	O M	A TEN	508	15.265	14.820	26.855	1.00 23.86
ATOM ATOM	1476 1477		MET A		12.603 12.016	15.865 15.450	25.438 24.036	1.00 26.46 1.00 23.87
ATOM ATOM	1478 1479		MET A		11.715	17.040	23.204	1.00 27.80
MOTA	1480	N L	LEU A	509	10.678 13.694	17.924 15.107	24.359 28.395	1.00 30.56 1.00 25.05
ATOM ATOM	1481 1482		LEU A		14.653 15.476	15.377 14.184	29.477 29.885	1.00 27.05 1.00 22.15
ATOM	1483	0 L	JEU A	509	16.562	14.328	30.484	1.00 26.84
ATOM ATOM	1484 1485		LEU A		13.929 13.620	15.907 17.398	30.716 30.651	1.00 28.80 1.00 35.21
MOTA	1486	CD1 L	LEU A	509	12.905	17.767	31.920	1.00 32.29
ATOM ATOM	1487 1488		LEU A		14.902 15.101	18.188 12.954	30.394 29.602	1.00 36.14 1.00 22.10
ATOM	1489	CA L	EU A		15.847	11.731	29.817	1.00 31.30
ATOM ATOM	1490 1491		EU A EU A		17.152 18.184	11.661 11.107	29.004 29.461	1.00 27.86 1.00 25.83
ATOM ATOM	1492 1493		JEU A		15.009 14.041	10.509 10.070	29.533 30.659	1.00 32.50 1.00 37.86
ATOM	1494	CD1 L	EU A	510	14.036	8.558	30.650	1.00 37.86
ATOM ATOM	1495 1496		EU A ER A		14.409 17.164	10.625 12.332	32.030 27.846	1.00 41.89 1.00 21.01
MOTA	1497	CA S	ER A	51 1	18.407	12.412	27.088	1.00 19.52
ATOM ATOM	1498 1499		ER A		19.356 20.578	13.350 13.174	27.853 27.756	1.00 20.33 1.00 19.80
ATOM	1500	CB S	ER A	511	18.054	13.094	25.749	1.00 21.91
ATOM ATOM	1501 1502		ER A		17.353 18.820	12.110 14.337	24.988 28.598	1.00 27.19 1.00 17.00
ATOM ATOM	1503 1504		IIS A		19.675 20.310	15.265 14.488	29.350	1.00 17.20
ATOM	1505	о н	IS A	512	21.462	14.726	30.520 30.897	1.00 18.30 1.00 18.47
ATOM ATOM	1506 1507		IS A		18.901 18.468	16.482 17.393	29.781 28.645	1.00 22.31 1.00 27.23
MOTA	1508	ND1 H	IS A	512	18.601	18.755	28.801	1.00 30.72
ATOM ATOM	1509 1510		IS A		17.899 18.129	17.200 19.363	27.450 27.717	1.00 32.28 1.00 33.98
MOTA	1511	NE2 H	IS A	512	17.705	18.450	26.873	1.00 27.65
MOTA MOTA	1512 1513		AL A		19.477 19.990	13.666 12.851	31.181 32.290	1.00 18.12 1.00 22.72
ATOM ATOM	1514 1515		AL A		21.030 22.097	11.881 11.700	31.730 32.335	1.00 20.91 1.00 20.66
ATOM	1516	CB V	AL A	513	18.847	12.145	33.064	1.00 20.88
ATOM ATOM	1517 1518	CG1 V	AL A	513 513	19.459 17.778	11.526 13.131	34.341 33.458	1.00 23.18 1.00 20.14
MOTA	1519	N A	RG A	514	20.876	11.298	30.545	1.00 19.00
ATOM ATOM	1520 1521		RG A . RG A .		21.899 23.173	10.441 11.232	29.925 29.640	1.00 20.34 1.00 20.91
ATOM	1522	0 A	RG A	514	24.289	10.721	29.911	1.00 18.76
ATOM ATOM	1523 1524	CG A	RG A :	514	21.354 22.254	9.808 8.874	28.623 27.840	1.00 18.63 1.00 22.80
ATOM ATOM	1525 1526		RG A :		22.365 21.077	7.479 6.785	28.524 28.263	1.00 30.40 1.00 34.94
MOTA	1527	CZ A	RG A	514	20.885	5.873	27.310	1.00 36.49
ATOM ATOM	1528 1529	NH1 A	RGA!		21.890 19.683	5.517 5.346	26.538 27.147	1.00 35.79 1.00 41.59
MOTA	1530	N H	IS A	515	23.056	12.440	29.151	1.00 18.76
ATOM ATOM	1531 1532		IS A !		24.205 25.011	13.313 13.540	28.810 30.105	1.00 21.44 1.00 18.96
ATOM	1533		IS A		26.244	13.432	30.147	1.00 17.34

ATOM 1601 C LEU A 524 36.493 8.821 36.262 1.00 29.29		ATOM 1: ATOM 1	NN A OBG 12 NN CC OCN CC OCCONN CC OCCCONN C	HIS A 515 HIS A 516 ALA A 517 SER A 518 ASN A 519 LYS A 520 GLY A 520 GLY A 520 GLY A 521 MET A 522 GLU A 523 HIS A 523	22222222222222222222222222222222222222	15.642 17.6949 16.249 16.249 16.8520 11.0.469 11.0.469 11.0.469 11.0.469 11.0.364 11.0.469 11.0.364 11.0.364 11.0.364 11.0.364 11.0.364 11.0.364 11.0.364 11.0.364 11.0.364 11.0.364 11.0.364 11.0.364 11.0.364 11.0.364 11.0.364 12.0.366 13.0	27.748 27.748	1.00 23.61
ATOM 1597 CE1 HIS A 523 35.458 14.901 38.312 1.00 29.69 ATOM 1598 NE2 HIS A 523 35.964 15.828 37.492 1.00 28.98 ATOM 1599 N LEU A 524 34.832 10.630 35.885 1.00 23.61 ATOM 1600 CA LEU A 524 35.316 9.624 36.806 1.00 25.30 ATOM 1601 C LEU A 524 36.493 8.821 36.262 1.00 29.29	ATOM 1597 CE1 HIS A 523 35.458 14.901 38.312 1.00 29.69 ATOM 1598 NE2 HIS A 523 35.964 15.828 37.492 1.00 28.98 ATOM 1599 N LEU A 524 34.832 10.630 35.885 1.00 23.61 ATOM 1600 CA LEU A 524 35.316 9.624 36.806 1.00 25.30 ATOM 1601 C LEU A 524 36.493 8.821 36.262 1.00 29.29 ATOM 1602 O LEU A 524 37.517 8.568 36.943 1.00 25.59 ATOM 1603 CB LEU A 524 34.121 8.699 37.151 1.00 22.60 ATOM 1604 CG LEU A 524 34.407 7.594 38.141 1.00 26.13 ATOM 1605 CD1 LEU A 524 35.007 8.077 39.469 1.00 23.83 ATOM 1606 CD2 LEU A 524 33.118 6.810 38.416 1.00 26.40 ATOM 1607 N LEU A 525 36.388 8.450 34.978 1.00 26.41 ATOM 1608 CA LEU A 525 37.508 7.752 34.317 1.00 29.31 ATOM 1609 C LEU A 525 38.733 8.665 34.330 1.00 26.40	ATOM 15 ATOM 15 ATOM 15 ATOM 15	592 O 593 CB 594 CG 595 ND1	HIS A 523 HIS A 523 HIS A 523 HIS A 523	36.771 34.136 34.806 34.739	11.815 13.679 14.412 14.029	35.999 35.140 36.272 37.579	1.00 26.33 1.00 21.63 1.00 24.67 1.00 29.47
	ATOM 1603 CB LEU A 524 34.121 8.699 37.151 1.00 22.60 ATOM 1604 CG LEU A 524 34.407 7.594 38.141 1.00 26.13 ATOM 1605 CD1 LEU A 524 35.007 8.077 39.469 1.00 23.83 ATOM 1606 CD2 LEU A 524 33.118 6.810 38.416 1.00 26.40 ATOM 1607 N LEU A 525 36.388 8.450 34.978 1.00 26.41 ATOM 1608 CA LEU A 525 37.508 7.752 34.317 1.00 29.31 ATOM 1609 C LEU A 525 38.733 8.665 34.330 1.00 26.40	ATOM 15 ATOM 15 ATOM 16 ATOM 16	597 CE1 598 NE2 599 N 600 CA 601 C	HIS A 523 HIS A 523 LEU A 524 LEU A 524 LEU A 524	35.458 35.964 34.832 35.316 36.493	14.901 15.828 10.630 9.624 8.821	38.312 37.492 35.885 36.806 36.262	1.00 29.69 1.00 28.98 1.00 23.61 1.00 25.30 1.00 29.29

	1011			7	38 455		20 2==					_
ATOM	1611	CB	LEU A		37.125	7.485	32.859	1.00 3				С
ATOM	1612	CG	LEU A		38.261	6.885	32.008	1.00 3				С
ATOM	1613		LEU A		38.603	5.515	32.560	1.00 3	_			C
ATOM	1614		LEU A		37.813	6.926	30.556	1.00 3				С
ATOM	1615	N	ASN A		38.585	9.964	34.173	1.00 2				N
MOTA	1616	CA	ASN A		39.739	10.879	34.195	1.00 3				C
MOTA	1617	C	ASN A		40.314	10.939	35.601	1.00 3		•		C
MOTA	1618	O	ASN A		41.544	10.831	35.827	1.00 3				0
MOTA	1619	CB	ASN A		39.404	12.184	33.509	1.00 4				C
ATOM ATOM	1620	CG	ASN A		39.453 40.312	12.066	31.989	1.00 4				C
ATOM	1621 1622		ASN A S		38.548	11.382 12.701	31.400 31.238	1.00 4				O N
ATOM	1623	ND2	MET A		39.459	10.912	36.620	1.00 2				
ATOM	1624	CA	MET A		39.892	10.912	38.016	1.00 3				N C
ATOM	1625	C	MET A		40.665	9.681	38.371	1.00 2				Ċ,
ATOM	1626	Ö	MET A		41.583	9.730	39.228	1.00 3				0
ATOM	1627	СВ	MET A		38.737	11.111	38.996	1.00 3				č
ATOM	1628	CG	MET A		38.123	12.480	39.050	1.00 3				0080
ATOM	1629	SD	MET A		39.273	13.812	39.490	1.00 3				S
ATOM	1630	CE	MET A		39.552	14.517	37.876	1.00 4				č
ATOM	1631	N	LYS A		40.260	8.580	37.788	1.00 2				Ň
ATOM	1632	CA	LYS A		40.898	7.290	37.996	1.00 3				C
ATOM	1633	C	LYS A		42.250	7.321	37.261	1.00 4				Ċ
ATOM	1634	0	LYS A S		43.214	6.736	37.778	1.00 3	5.78			0
ATOM	1635	CB	LYS A		40.042	6.128	37.542	1.00 3				Ċ
ATOM	1636	CG	LYS A		40.665	4.749	37.628	1.00 4				С
ATOM	1637	CD	LYS A		41.195	4.294	36.273	1.00 4	6.75			C
ATOM	1638	CE	LYS A		41.618	2.830	36.366	1.00 5	3.32			C
MOTA	1639	NZ	LYS A	528	41.249	2.097	35.117	1.00 5	9.40			N
ATOM	1640	N	CYS A S	529	42.290	7.989	36.107	1.00 3	6.42			N
ATOM	1641	CA	CYS A S	529	43.556	8.114	35.386	1.00 4	5.49			С
ATOM	1642	С	CYS A S		44.505	9.085	36.089	1.00 4	4.41			С
MOTA	1643	0	CYS A	529	45.739	8.956	35.943	1.00 4	6.54			0
ATOM	1644	CB	CYS A S	529	43.361	8.551	33.933	1.00 4	5.99			С
ATOM	1645	SG	CYS A	529	42.538	7.282	32.929	1.00 5	4.11			S
ATOM	1646	N	LYS A S	530	44.020	10.057	36.840	1.00 4	1.40			N
ATOM	1647	CA	LYS A S	530	44.865	10.985	37.583	1.00 4	2.22			С
MOTA	1648	C	LYS A S		45.317	10.356	38.907	1.00 4				С
MOTA	1649	0	LYS A S		45.983	10.964	39.741	1.00 4				0
MOTA	1650	CB	LYS A 5		44.181	12.315	37.843	1.00 4				С
MOTA	1651	CG	LYS A S		44.062	13.248	36.639	1.00 5				С
MOTA	1652	CD	LYS A S		43.608	14.622	37.112	1.00 5				С
MOTA	1653	CE	LYS A		42.681	15.306	36.131	1.00 6				С
ATOM	1654	NZ	LYS A		41.996	16.471	36.772	1.00 6				N
ATOM	1655	N	ASN A		44.862	9.159	39.207	1.00 3				N
ATOM	1656	CA	ASN A		45.071	8.329	40.356	1.00 3				C
ATOM	1657	C	ASN A		44.447	8.962	41.597 42.729	1.00 3				CO
ATOM	1658	O	ASN A		44.861	8.759 8.010	42.729	1.00 3				C
ATOM	1659	CB	ASN A S		46.555 46.755	6.889	41.590	1.00 4			,	C
ATOM	1660 1661	CG OD1	ASN A S		46.733	5.783	41.548	1.00 4				ŏ
ATOM ATOM	1662		ASN A S		47.618	7.161	42.564	1.00 4				И
	1663	ND2	VAL A		43.380	9.713	41.376	1.00 3				N
ATOM ATOM	1664	CA	VAL A		43.500	10.393	42.420	1.00 3				C
ATOM	1665	C	VAL A		41.657	9.407	43.078	1.00 3				c
ATOM	1666	ŏ	VAL A		41.314	9.513	44.269	1.00 3				ŏ
ATOM	1667	СВ	VAL A		41.893	11.631	41.888	1.00 3	0.67			Č
ATOM	1668		VAL A		41.012	12.351	42.894	1.00 3				č
ATOM	1669		VAL A		42.905	12.624	41.305	1.00 3				С
MOTA	1670	N	VAL A		41.163	8.425	42.334	1.00 2				N
ATOM	1671	CA	VAL A		40.301	7.405	42.880	1.00 2	8.57			C
ATOM	1672	C	VAL A		40.833	6.084	42.358	1.00 3				С
MOTA	1673	Ö	VAL A		41.461	6.090	41.297	1.00 3	4.29			0
ATOM	1674	CB	VAL A		38.796	7.497	42.507	1.00 2	6.23			
ATOM	1675		VAL A		38.190	8.771	43.058	1.00 2	5.81			C C C
ATOM	1676		VAL A 5		38.655	7.456	40.990	1.00 2				C
MOTA	1677	N	PRO A S		40.532	4.992	43.030	1.00 3				N
ATOM	1678	CA	PRO A S	534	40.998	3.686	42.641	1.00 3				C
MOTA	1679	C	PRO A		40.315	2.988	41.494	1.00 4				C
ATOM	1680	0	PRO A		40.942	2.279	40.685	1.00 4		-		0
ATOM	1681	CB	PRO A		40.796	2.868	43.926	1.00 3				C
ATOM	1682	CG	PRO A		39.740	3.556	44.711	1.00 3				C
ATOM	1683	CD	PRO A		39.829	5.017	44.357	1.00 3				C
ATOM	1684	N	VAL A		38.971	3.074	41.407	1.00 3				N
ATOM	1685	CA	VAL A		38.265	2.375	40.373	1.00 3				C
ATOM	1686	C	VAL A S		37.284	3.306	39.646	1.00 3				0
MOTA	1687	0	VAL A	232	36.844	4.334	40.129	1.00 3	2.00			J

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1688 1689 1690 1691 1692 1693 1694 1695 1696	CG1 VAL CG2 VAL N TYR CA TYR C TYR O TYR CB TYR CG TYR CG TYR	A 535 A 536 A 536 A 536 A 536 A 536 A 536 A 536	37.472 38.378 36.618 37.031 36.127 34.753 33.713 36.730 35.776 35.249	1.166 0.016 1.636 2.914 3.630 2.987 3.680 3.510 3.844 5.129	40.914 41.335 42.077 38.422 37.526 37.622 37.734 36.113 34.993 34.853	1.00 42.03 1.00 41.96 1.00 41.40 1.00 38.81 1.00 37.76 1.00 33.11 1.00 30.18 1.00 39.43 1.00 36.84 1.00 40.40
ATOM	1698	CE1 TYR	A 536	35.390	2.860	34.093	1.00 37.43
ATOM	1699		A 536	34.367	5.418	33.812	1.00 37.67
ATOM	1700		A 536	34.509	3.147	33.062	1.00 36.97
ATOM	1701		A 536	34.025	4.430	32.910	1.00 41.30
MOTA MOTA	1702 1703	OH TYR	A 536	33.141	4.693	31.877	1.00 41.15
ATOM	1703		A 537 A 537	34.752 33.513	1.656 0.889	37.5 47 37.580	1.00 28.09 1.00 31.30
ATOM	1705		A 537	33.048	0.696	39.012	1.00 29.04
ATOM	1706		A 537	33.279	-0.344	39.625	1.00 25.67
ATOM	1707	CB ASP	A 537	33.576	-0.430	36.807	1.00 35.55
ATOM	1708		A 537	32.198	-1.027	36.548	1.00 42.06
ATOM	1709		A 537	31.230	-0.697	37.278	1.00 35.88
MOTA	1710	OD2 ASP	A 537	32.045	-1.830	35.593	1.00 44.18
MOTA	1711		A 538	32.285	1.690	39.496	1.00 27.09
MOTA	1712		A 538	31.736	1.612	40.853	1.00 25.60
ATOM ATOM	1713 1714	C LEU	A 538 A 538	30.744 30.667	0.503 0.038	41.053 42.199	1.00 23.74
ATOM	1715	CB LEU	A 538	31.116	2.942	41.272	1.00 24.81 1.00 24.14
ATOM	1716	CG LEU	A 538	32.055	4.155	41.069	1.00 23.55
ATOM	1717		A 538	31.387	5.388	41.650	1.00 22.07
ATOM	1718	CD2 LEU	A 538	33.417	3.877	41.706	1.00 25.28
ATOM	1719	CA LEU	A 539	29.991	0.086	40.044	1.00 24.40
ATOM	1720		A 539	29.082	-1.035	40.197	1.00 25.24
ATOM	1721		A 539	29.907	-2.329	40.450	1.00 21.34
ATOM	1722		A 539	29.600	-3.010	41.403	1.00 27.46
ATOM	1723	CB LEU	A 539	28.165	-1.180	38.970	1.00 22.82
ATOM	1724	CG LEU	A 539	27.298	-2.427	38.999	1.00 25.22
ATOM	1725		A 539	26.383	-2.463	40.212	1.00 23.54
ATOM	1726	CD2 LEU	A 539	26.489	-2.512	37.687	1.00 26.32
ATOM	1727	N LEU	A 540	30.889	-2.564	39.616	1.00 24.92
ATOM	1728	CA LEU	A 540	31.808	-3.717	39.812	1.00 31.88
ATOM	1729		A 540	32.518	-3.655	41.163	1.00 30.52
ATOM	1730		A 540	32.598	-4.650	41.875	1.00 33.31
ATOM ATOM	1731 1732		A 540 A 540	32.829 33.861	-3.697 -4.865	38.666	1.00 29.45
ATOM	1733	CD1 LEU	A 540	33.184	-6.206	38.710 38.876	1.00 37.60 1.00 36.10
MOTA	1734		A 540	34.700	-4.809	37.449	1.00 39.88
MOTA	1735		A 541	33.018	-2.494	41.579	1.00 32.71
ATOM	1736	CA GLU	A 541	33.658	-2.334	42.881	1.00 31.44
ATOM	1737	O GLU	A 541	32.698	-2.709	44.015	1.00 30.48
ATOM	1738		A 541	33.067	-3.302	45.012	1.00 33.64
ATOM	1739		A 541	34.190	-0.926	43.146	1.00 35.85
ATOM	1740		A 541	35.058	-0.841	44.410	1.00 42.38
ATOM	1741	CD GLU	A 541	36.133	-1.934	44.373	1.00 47.06
ATOM	1742	OE1 GLU	A 541	36.99 4	-1.908	43.484	1.00 46.54
ATOM	1743	OE2 GLU	A 541	36.120	-2.860	45.210	1.00 53.26
ATOM	1744		A 542	31.440	-2.244	43.953	1.00 25.53
ATOM	1745		A 542	30.427	-2.556	44.905	1.00 25.12
MOTA	1746	C MET	A 542	30.201	-4.072	45.019	1.00 28.01
ATOM	1747		A 542	30.232	-4.626	46.114	1.00 29.02
ATOM	1748		A 542	29.074	-1.863	44.632	1.00 23.97
MOTA MOTA	1749 1750	CG MET	A 542 A 542	28.085 27.112	-2.113 -3.597	45.753 45.520	1.00 22.61
ATOM	1751	CE MET	A 542	26.106	-3.241	44.082	1.00 26.51
ATOM	1752		A 543	29.975	-4.730	43.893	1.00 27.93
ATOM	1753		A 543	29.789	-6.177	43.882	1.00 37.51
MOTA	1754	C LEU	A 543	31.077	-6.907	44.305	1.00 29.29
MOTA	1755		A 543	30.992	-8.002	44.851	1.00 40.69
MOTA	1756	CB LEU	A 543	29.394	-6.592	42.468	1.00 35.84
ATOM	1757	CD1 LEU	A 543	27.999	-6.116	42.022	1.00 39.20
ATOM	1758		A 543	27.844	-6.273	40.513	1.00 37.50
ATOM ATOM	1759 1760	CD2 LEU	A 543 A 544	26.964 32.251	-6.890	42.819	1.00 39.03
MOTA	1761	CA ASN	A 544	33.450	-6.388 -7.147	44.020 44.460	1.00 36.39 1.00 38.48
ATOM	1762		A 544	33.631	-7.064	45.960	1.00 43.50
ATOM	1763		A 544	33.883	-8.067	46.657	1.00 42.84
MOTA	1764		A 544	34.624	-6.686	43.612	1.00 45.08

ATOM ATOM	1765 1766		ASN A			34.582 35.290	-7.357	42.246 41.385	1.00 44.51 1.00 51.67
ATOM	1767		ASN A			33.230	-6.838 -8.437	42.089	1.00 51.87
ATOM	1768	N	ALA A			33.361	-5.926	46.585	1.00 40.45
ATOM ATOM	1769 1770	CA C	ALA A			33.453 32.268	-5.756 -6.193	48.021 48.848	1.00 38.08 1.00 37.95
ATOM	1771		ALA A			32.444	-6.329	50.078	1.00 37.93
ATOM	1772		ALA A		:	33.672	-4.257	48.315	1.00 36.01
ATOM ATOM	1773 1774		HIS A			31.048 29.911	-6.361 -6.714	48.386 49.206	1.00 31.25 1.00 32.20
ATOM	1775		HIS A			29.653	-8.214	49.109	1.00 32.20
MOTA	1776	0	HIS A			29.988	-8.799	48.073	1.00 34.48
ATOM ATOM	1777 1778		HIS A			28.664 28.866	-5.875 -4.431	48.914 49.329	1.00 35.48 1.00 30.08
ATOM	1779		HIS A			28.295	-3.939	50.481	1.00 30.08
MOTA	1780	CD2	HIS A	546	:	29.565	-3.435	48.771	1.00 34.54
ATOM ATOM	1781 1782		HIS A			28.660 29.411	-2.660 -2.339	50.619 49.593	1.00 35.68 1.00 33.94
ATOM	1783		VAL A			29.150	-8.824	50.174	1.00 33.94
MOTA	1784		VAL A				-10.273	50.130	1.00 45.83
ATOM ATOM	1785 1786		VAL A			27.450 26.638	-10.597 -9.875	50.207 50.786	1.00 48.59 1.00 45.34
ATOM	1787		VAL A				-11.039	51.161	1.00 45.34
MOTA	1788	CG1	VAL A	547	;	30.307	-10.158	52.287	1.00 51.09
ATOM	1789 1790		VAL A LEU A				-12.243	51.823	1.00 53.46
MOTA MOTA	1791		LEU A				-11.681 -12.160	49.496 49.515	1.00 43.35 1.00 47.89
ATOM	1792	С	LEU A	548		25.376	-12.566	50.937	1.00 46.50
ATOM	1793		LEU A				-13.151	51.608	1.00 45.59
ATOM ATOM	1794 1795		LEU A				-13.387 -13.036	48.594 47.118	1.00 45.45 1.00 49.38
MOTA	1796	CD1	LEU A	548		26.029	-14.264	46.249	1.00 47.84
ATOM	1797 1798		LEU A				-12.232	46.615	1.00 48.16
ATOM ATOM	1799		ALA A ALA A				-12.232 -12.624	51.402 52.744	1.00 54.13 1.00 57.06
ATOM	1800	C .	ALA A	549	:	22.623	-13.653	52.585	1.00 56.83
ATOM	1801		ALA A				-14.402	51.568	1.00 56.96
ATOM ATOM	1802 1803		ALA A LEU B	311	•	2.997	-11.460 26.939	53.602 11.936	1.00 58.43 1.00 28.08
ATOM	1804	CA	LEU B	311		3.288	25.890	12.956	1.00 33.81
ATOM	1805		LEU B	311 311		2.220	24.823 23.943	13.099	1.00 36.64
ATOM ATOM	1806 1807		LEU B	311		3.595	26.539	13.941 14.293	1.00 35.73 1.00 32.95
ATOM	1808	CG	LEU B	311		4.849	27.406	14.305	1.00 33.74
ATOM ATOM	1809 1810			311 311		4.950 6.095	28.130 26.598	15.644 14.019	1.00 36.98 1.00 34.94
ATOM	1811			312		1.144	24.868	12.322	
MOTA	1812	CA	SER B			0.128	23.810	12.449	1.00 35.91
ATOM ATOM	1813 1814		SER B			0.830 1.699	22.540 22.603	11.976 11.127	1.00 31.76 1.00 28.79
ATOM	1815		SER B		-	-1.113	24.179	11.641	1.00 28.79
ATOM	1816		SER B		-	-0.946	23.904	10.268	1.00 44.53
ATOM ATOM	1817 1818		PRO B			0.472 1.160	21.378 20.130	12.505 12.176	1.00 33.20 1.00 29.36
ATOM	1819		PRO B			1.374	19.809	10.726	1.00 30.45
ATOM	1820		PRO B			2.500	19.515	10.291	1.00 28.30
ATOM ATOM	1821 1822		PRO B		_	0.272	19.093 19.811	12.871 14.029	1.00 28.85 1.00 30.58
ATOM	1823	CD	PRO B	313		-0.571	21.235	13.545	1.00 32.44
ATOM	1824		GLU B			0.350	19.829	9.859	1.00 26.68
ATOM ATOM	1825 1826		GLU B			0.570 1.575	19.471 20.360	8.458 7.714	1.00 28.47 1.00 26.99
ATOM	1827	0	GLU B	314		2.441	19.927	6.942	1.00 30.41
ATOM	1828		GLU B			-0.788	19.492	7.734	1.00 35.34
ATOM ATOM	1829 1830		GLU B			-0.667 -2.047	19.284 18.819	6.226 5.717	1.00 39.69 1.00 47.00
ATOM	1831	OE1	GLU B	314	-	-3.053	19.421	6.148	1.00 48.55
ATOM	1832 1833		GLU B GLN B		-	-2.071 1.475	17.867 21.643	4.941 7.937	1.00 44.66 1.00 26.38
ATOM ATOM	1833		GLN B			2.343	21.643	7.352	1.00 26.38
MOTA	1835	C	GLN B	315		3.763	22.592	7.945	1.00 31.40
ATOM ATOM	1836 1837		GLN B			4.698 1.778	22.770 24.030	7.183 7.722	1.00 27.97 1.00 34.22
ATOM	1838		GLN B			2.781	25.134	7.722	1.00 34.22
MOTA	1839	CD (GLN B			2.388	26.515	7.980	1.00 56.80
ATOM ATOM	1840 1841		GLN B			3.047	27.482 26.636	7.546 8.806	1.00 61.06 1.00 59.90
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ATOM	1842	N	LEU B	316	3.844	22.320	9.266	1.00 26.87
ATOM	1843	CA	LEU B		5.164	22.225	9.893	1.00 30.02
MOTA	1844	С	LEU B	316	5.953	21.060	9.307	1.00 24.87
ATOM	1845	0	LEU B	316	7.087	21.168	8.853	1.00 21.60
MOTA	1846	CB		316	5.082	22.171	11.419	1.00 30.22
ATOM	1847	CG		316	6.448	22.132	12.151	1.00 29.83
ATOM	1848			316	7.407	23.196	11.647	1.00 36.85
ATOM	1849				6.214 5.290	22.305 19.911	13.649 9.164	1.00 31.20 1.00 26.19
ATOM	1850 1851	N CA	VAL B	317	5.290	18.754	8.555	1.00 25.13
ATOM ATOM	1852	CA	VAL B		6.283	19.026	7.095	1.00 25.33
ATOM	1853	ŏ	VAL B		7.335	18.608	6.592	1.00 26.56
ATOM	1854	ČВ	VAL B		4.963	17.536	8.651	1.00 23.20
ATOM	1855		VAL B		5.602	16.338	7.965	1.00 29.83
MOTA	1856	CG2	VAL B		4.725	17.198	10.129	1.00 24.89
MOTA	1857	N	LEU B		5.366	19.711	6.374	1.00 26.44
ATOM	1858	CA	LEU B		5.715	20.004	4.961	1.00 25.87
ATOM	1859	C	LEU B		6.993 7.871	20.864 20.601	4.939 4.105	1.00 21.42 1.00 26.99
ATOM ATOM	1860 1861	O CB	LEU B		4.557	20.676	4.227	1.00 34.23
ATOM	1862	CG	LEU B		4.729	20.919	2.721	1.00 43.62
ATOM	1863		LEU B		5.709	19.980	2.035	1.00 43.77
ATOM	1864				3.321	20.817	2.110	1.00 50.90
ATOM	1865	N	THR B	319	7.102	21.869	5.750	1.00 22.65
MOTA	1866	CA	THR B	319	8.304	22.714	5.845	1.00 23.19
MOTA	1867	С	THR B		9.527	21.880	6.190	1.00 24.51
MOTA	1868	0	THR B		10.600	22.022	5.587	1.00 22.04
ATOM	1869	CB	THR B		8.050	23.836	6.857	1.00 29.56
MOTA	1870	OG1 CG2			6.938 9.245	24.585 24.756	6.281 7.064	1.00 31.39 1.00 29.89
ATOM ATOM	1871 1872	N	THR B LEU B	319	9.341	20.936	7.148	1.00 23.26
ATOM	1873	CA		320	10.491	20.067	7.476	1.00 21.50
ATOM	1874	C	LEU B		10.894	19.211	6.299	1.00 22.15
ATOM	1875	ō		320	12.092	19.033	6.062	1.00 24.21
ATOM	1876	CB		320.	10.196	19.210	8.717	1.00 20.38
ATOM	1877	CG		320	9.900	19.993	9.996	1.00 23.03
ATOM	1878	CD1		320	9.548	19.072	11.165	1.00 25.32
ATOM	1879	CD2			11.194	20.775	10.338	1.00 27.97
MOTA	1880	N	LEU B		9.926	18.679	5.537	1.00 23.98
ATOM	1881	CA	LEU B		10.193 10.950	17.885 18.700	4.347 3.297	1.00 27.88, 1.00 24.23
ATOM ATOM	1882 1883	C O		321 321	12.004	18.297	2.834	1.00 24.25
ATOM	1884	CB		321	8.953	17.279	3.665	1.00 32.25
ATOM	1885	CG		321	9.444	16.095	2.797	1.00 42.62
ATOM	1886	CD1			9.195	14.790	3.529	1.00 40.89
MOTA	1887	CD2	LEU B		8.963	16.136	1.372	1.00 44.42
MOTA	1888	N	GLU B	-	10.584	19.962	3.117	1.00 26.19
ATOM	1889	CA	GLU B		11.273	20.866 21.304	2.204	1.00 33.17 1.00 37.53
ATOM	1890	C	GLU B		12.650 13.557	21.573	1.874	1.00 37.53
ATOM ATOM	1891 1892	O CB		322	10.419	22.129	1.971	1.00 31.87
ATOM	1893	CG		322	9.136	21.886	1.212	1.00 45.26
ATOM	1894	CD		322	7.960	22.821	1.391	1.00 50.64
ATOM	1895	OE1		322	8.076	23.889	2.029	1.00 55.44
ATOM	1896	OE2		322	6.862	22.498	0.866	1.00 53.60
ATOM	1897	N		323	12.918	21.323	3.985	1.00 28.29
ATOM	1898	CA		323	14.165	21.776	4.551	1.00 28.43 1.00 23.34
ATOM	1899	C		323 323	15.262 16.407	20.723 21.056	4.563 4.918	1.00 23.34 1.00 23.98
ATOM ATOM	1900 1901	O CB		323	13.897	22.348	5.942	1.00 29.41
ATOM	1901	N		324	14.960	19.516	4.168	1.00 23.45
ATOM	1903	CA	GLU B		15.866	18.397	4.182	1.00 23.91
ATOM	1904	C		324	17.077	18.646	3.323	1.00 27.63
ATOM	1905	0	GLU B	324	16.940	19.001	2.143	1.00 25.43
ATOM	1906	CB	GLU B		15.176	17.118	3.748	1.00 26.75
ATOM	1907	CG		324 ·	14.482	16.319	4.833	1.00 30.12
ATOM	1908	CD	GLU B		15.459	15.784	5.884	1.00 27.37
ATOM	1909	OE1		324	15.687 15.984	16.472 14.678	6.899 5.715	1.00 27.33 1.00 32.31
ATOM ATOM	1910 1911	OE2 N	PRO B	325	18.260	18.474	3.861	1.00 32.31
ATOM	1911	CA	PRO B		19.459	18.676	3.077	1.00 30.04
ATOM	1913	C	PRO B		19.550	17.819	1.827	1.00 27.05
ATOM	1914	ŏ	PRO B	325	19.174	16.649	1.832	1.00 30.82
ATOM	1915	CB	PRO B	325	20.579	18.211	4.025	1.00 33.29
ATOM	1916	CG	PRO B		20.014	18.290	5.394	1.00 32.61
MOTA	1917	CD	PRO B		18.528	18.063	5.279	1.00 26.80
MOTA	1918	N	PRO B	326	20.333	18.312	0.858	1.00 31.94

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1939 1931 1932 1933 1934	CD2 CE1 NE2 N	VAL B 328	21.499 22.182 21.322 21.992 20.811 21.672 22.639 24.059 24.280 22.500 21.173 20.053 20.780 19.026 19.450 24.998	17.563 16.404 18.603 19.512 19.708 15.369 14.326 14.891 15.813 13.130 12.440 13.005 11.225 12.173 11.084 14.343	-0.370 -0.021 1.023 -1.220 -0.229 0.745 -0.845 -0.519 -0.698 -1.510 -1.458 -1.478 -2.048 -1.943 -1.326 0.058	1.00 34.47 1.00 36.74 1.00 28.88 1.00 33.99 1.00 36.09 1.00 31.99 1.00 35.27 1.00 35.27 1.00 34.67 1.00 30.20 1.00 44.84 1.00 52.21 1.00 56.60 1.00 53.45 1.00 58.32 1.00 55.20 1.00 26.84
ATOM ATOM ATOM	1936 1937 1938	CA C O	VAL B 328 VAL B 328 VAL B 328	26.407 27.150 26.920	14.756 13.684 12.470	-0.017 -0.834 -0.768	1.00 29.87 1.00 35.70 1.00 37.59
ATOM ATOM	1939 1940	CB CG1	VAL B 328 VAL B 328	27.102 28.608	14.983 15.126	1.329 1.202	1.00 38.42 1.00 40.42
ATOM ATOM	1941 1942	CG2 N		26.570 28.108	16.241 14.161	2.013 -1.629	1.00 36.69
MOTA	1943	CA	LEU B 329	28.901	13.208	-2.428	1.00 31.23 1.00 36.50
ATOM ATOM	1944 1945	С 0	LEU B 329 LEU B 329	30.317 30.967	13.139 14.166	-1.856 -1.773	1.00 33.10 1.00 27.72
ATOM ATOM	1946 1947	CB CG	LEU B 329 LEU B 329	29.040 27.970	13.675	-3.866	1.00 39.45
MOTA	1948	CD1	LEU B 329	28.564	14.691 15.941	-4.259 -4.921	1.00 45.22 1.00 51.61
MOTA MOTA	1949 1950	CD2 N	LEU B 329 ILE B 330	26.920 30.704	14.056 11.973	-5.142 -1.413	1.00 48.87 1.00 32.02
ATOM ATOM	1951 1952	CA C	ILE B 330 ILE B 330	32.040 32.277	11.727	-0.878	1.00 31.90
MOTA	1953	0	ILE B 330	31.317	10.263 9.475	-1.213 -1.174	1.00 30.64 1.00 29.62
MOTA MOTA	1954 1955	CB CG1	ILE B 330 ILE B 330	32.173 33.622	12.091 12.184	0.599 1.039	1.00 31.89 1.00 38.77
ATOM ATOM	1956	CG2	ILE B 330	31.427	11.097	1.485	1.00 34.48
ATOM	1957 1958	CD1 N	SER B 331	33.898 33.481	12.836 9.916	2.371 -1.636	1.00 36.86 1.00 30.39
MOTA MOTA	1959 1960	CA C	SER B 331 SER B 331	33.763 34.935	8.514 8.017	-1.991 -1.147	1.00 30.31 1.00 28.82
MOTA	1961	0	SER B 331	35.624	8.891	-0.621	1.00 33.08
ATOM ATOM	1962 1963	CB OG	SER B 331 SER B 331	34.269 33.205	8.445 8.676	-3.451 -4.372	1.00 36.40 1.00 44.06
MOTA MOTA	1964 1965	N CA	ARG B 332 ARG B 332	35.193 36.381	6.727 6.242	-1.123 -0.407	1.00 34.39 1.00 39.40
ATOM	1966	С	ARG B 332	37.630	6.760	-1.111	1.00 40.89
ATOM ATOM	1967 1968	O CB	ARG B 332 ARG B 332	37.532 36.419	7.090 4.737	-0.540	1.00 37.21 1.00 41.47
ATOM ATOM	1969 1970	CG CD	ARG B 332 ARG B 332	35.191 35.310	4.031 2.524	-0.039 -0.298	1.00 35.40 1.00 36.04
ATOM	1971	NE	ARG B 332	34.175	1.914	0.457	1.00 32.43
ATOM ATOM	1972 1973		ARG B 332 ARG B 332	34.484 33.409	1.239 0.729	1.581 2.207	1.00 32.86 1.00 31.12
ATOM ATOM	1974 1975	NH2 N	ARG B 332 PRO B 333	35.717 38.740	1.083 6.812	2.019 -0.404	1.00 32.26 1.00 40.15
ATOM ATOM	1976	CA	PRO B 333	39.982	7.270	-0.991	1.00 42.44
ATOM	1977 1978	0	PRO B 333 PRO B 333	40.526 40.051	6.211 5.063	-1.943 -1.909	1.00 44.51 1.00 35.65
ATOM ATOM	1979 1980	CB CG	PRO B 333 PRO B 333	40.896 40.351	7.440 6.524	0.226 1.268	1.00 43.67 1.00 43.95
MOTA	1981	CD	PRO B 333	38.860	6.418	1.019	1.00 40.70
ATOM ATOM	1982 1983	N CA	SER B 334 SER B 334	41.467 42.086	6.565 5.532	-2.811 -3.662	1.00 47.81 1.00 53.70
ATOM ATOM	198 4 1985	C	SER B 334 SER B 334	43.193 44.018	4.987 5.795	-2.730 -2.305	1.00 54.54 1.00 57.51
ATOM	1986	CB	SER B 334	42.770	6.035	-4.912	1.00 59.20
ATOM ATOM	1987 1988	OG N	SER B 334 ALA B 335	41.981 43.218	6.749 3.740	-5.830 -2.366	1.00 62.84 1.00 57.13
MOTA MOTA	1989 1990	CA C	ALA B 335 ALA B 335	44.189 43.368	3.118 2.447	-1.471 -0.371	1.00 57.19 1.00 56.88
MOTA	1991	0	ALA B 335	42.285	2.954	-0.070	1.00 59.11
ATOM ATOM	1992 1993	CB N	ALA B 335 PRO B 336	45.256 43.786	4.037 1.320	-0.895 0.173	1.00 51.31 1.00 57.85
ATOM ATOM	1994 1995	CA C	PRO B 336 PRO B 336	43.002 42.779	0.675 1.635	1.230	1.00 50.78 1.00 44.37
AION	1990	_	EKO B 336	42.779	1.033	2.363	1.00 44.3/

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	67899900123456789001232222222222222222222222222222222222	CCCCNCCOCCNCCOCCCOONCCOCNCCOCCCCCCCCCC	PROOF PROPERTY THAT THAT THAT THE COLLULUS COLLULUS AND SEER SEES SEED SEED SEES SEED	33333333333333333333333333333333333333		42.474 40.529 39.150 38.673 37.523 37.0907 37.0907 37.0907 39.016 39.115 40.145 39.976 38.164 39.976 38.164 39.976 38.164 39.976 38.365 40.796 40.	2.3749 4779 4.783303 4.783303 4.783303 4.783303 4.783303 4.783303 4.783303 4.783303 4.783303 4.783303 4.783303 4.783303 4.783303 5.59303 7.7833 8.7833 8.7833 8.8833 8.7833 8.883	21.56433600381999833701826972664336013389954551366533850976778.88665.389954551366653385097848423134486659.888665.889954551366653.3859666545.889954551318.7666.5323899112.334962899112.334962899112.334966654.778.8888.989999112.334966554.788989999112.334966554.788989999112.334966654.778888899999112.334966654.778888899999112.334966654.778888899999112.33497666554.7889899999112.33497666554.78898999999999999999999999999999999999	1.000 1.000	555433333333333332222333223332233322333	
MOTA MOTA MOTA	2064 2065 2066	C O CB	SER B SER B SER B	345 345 345	٠	35.615 34.690 36.481	11.153 11.845 9.333	6.253 5.801 4.793	1.00 2 1.00 2 1.00 2	22.08 22.12 26.82	
ATOM	2068	N	LEU B	346		35.606	10.660	7.497	1.00 2	22.10	
ATOM ATOM	2069 2070	CA C	LEU B	346		34.441 34.404	11.013 12.485	8.332 8.686	1.00 2	21.15	
MOTA	2071	0	LEU B	346		33.298	13.099	8.724	1.00 2	22.67	
MOTA	2072	СВ	LEU B	346		34.502	10.131	9.599	1.00 1	L9.43	

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2073 2074 2075 2076 2077 2078 2079 2080 2081	CG LEU B 346 CD1 LEU B 346 CD2 LEU B 346 N THR B 347 CA THR B 347 C THR B 347 O THR B 347 CB THR B 347 OG1 THR B 347	34.427 34.561 33.157 35.546 35.528 35.308 34.717 36.838 37.991	8.639 7.966 8.187 13.087 14.507 15.411 16.475 14.910 14.605	9.369 10.740 8.655 8.986 9.342 8.124 8.227 10.037 9.228	1.00 24.42 1.00 28.57 1.00 29.99 1.00 19.93 1.00 19.84 1.00 24.67 1.00 22.92 1.00 23.31 1.00 24.67
ATOM ATOM ATOM	2082 2083 2084	CG2 THR B 347 N LYS B 348 CA LYS B 348	36.890 35.811 35.551	14.105 14.974 15.788	11.334 6.958 5.765	1.00 24.77 1.00 22.52 1.00 23.61
ATOM ATOM	2085 2086	C LYS B 348 O LYS B 348	34.059 33.456	15.717 16.725	5.428 5.062	1.00 24.49 1.00 22.74
ATOM ATOM	2087 2088	CB LYS B 348 CG LYS B 348	36.403 36.053	15.342 16.197	4.563	1.00 24.18 1.00 37.16
MOTA	2089	CD LYS B 348	37.153	16.043	2.284	1.00 46.82
ATOM ATOM	2090 2091	CE LYS B 348 NZ LYS B 348	36.641 37.815	16.262 16.235	0.860 -0.085	1.00 55.26 1.00 55.79
ATOM	2092 2093	N LEU B 349	33.472	14.539	5.550	1.00 23.04
ATOM ATOM	2093	CA LEU B 349 C LEU B 349	32.029 31.203	14.391 15.243	5.307 6.270	1.00 23.65 1.00 20.57
ATOM ATOM	2095 2096	O LEU B 349 CB LEU B 349	30.243 31.580	15.901 12.953	5.846	1.00 19.40
ATOM	2097	CG LEU B 349	30.096	12.953	5.470 5.442	1.00 21.30 1.00 19.13
ATOM ATOM	2098 2099	CD1 LEU B 349 CD2 LEU B 349	29.501 29.844	13.108 11.135	4.100 5.672	1.00 24.56 1.00 19.63
ATOM	2100	N ALA B 350	31.613	15.152	7.561	1.00 16.98
MOTA MOTA	2101 2102	CA ALA B 350 C ALA B 350	30.858 30.952	15.982 17.454	8.544 8.186	1.00 16.28 1.00 19.41
ATOM ATOM	2103 2104	O ALA B 350	29.939	18.204	8.257	1.00 21.18
ATOM	2105	CB ALA B 350 N ASP B 351	31.472 32.101	15.773 17.948	9.941 7.738	1.00 22.64 1.00 23.16
ATOM ATOM	2106 2107	CA ASP B 351 C ASP B 351	32.224 31.238	19.365 19.737	7.361 6.261	1.00 21.48 1.00 23.62
ATOM	2108	O " ASP B 351	30.570	20.774	6.396	1.00 21.75
ATOM ATOM	2109 2110	CB ASP B 351 CG ASP B 351	33.665 33.915	19.593 21.092	6.857 6.619	1.00 25.15 1.00 29.55
MOTA MOTA	2111 2112	OD1 ASP B 351 OD2 ASP B 351	34.094	21.878 21.397	7.552 5.421	1.00 24.38
ATOM	2113	N LYS B 352	31.108	18.838	5.245	1.00 29.71 1.00 23.19
ATOM ATOM	2114 2115	CA LYS B 352 C LYS B 352	30.201 28.758	19.124 19.109	4.157 4.667	1.00 20.51 1.00 24.27
MOTA	2116 2117	O LYS B 352	27.947	19.974	4.327	1.00 21.67
ATOM ATOM	2118	CG LYS B 352	30.382 31.877	18.082 17.933	3.038 2.601	1.00 24.81 1.00 30.93
MOTA MOTA	2119 2120	CD LYS B 352 CE LYS B 352	31.877 33.301	17.094 17.013	1.313 0.763	1.00 34.26 1.00 41.29
MOTA	2121	NZ LYS B 352	33.509	15.899	-0.201	1.00 45.08
ATOM ATOM	2122 2123	N GLU B 353 CA GLU B 353	28.428 27.046	18.140 18.100	5.526 6.066	1.00 17.32 1.00 16.22
ATOM ATOM	2124 2125	C GLU B 353 O GLU B 353	26.782 25.612	19.277 19.734	7.021 7.097	1.00 16.23 1.00 19.91
MOTA	2126	CB GLU B 353	26.853	16.785	6.831	1.00 19.85
ATOM ATOM	2127 2128	CG GLU B 353 CD GLU B 353	26.755 26.332	15.616 14.342	5.849 6.575	1.00 19.59 1.00 24.45
ATOM ATOM	2129 2130	OE1 GLU B 353 OE2 GLU B 353	25.117 27.224	14.127 13.602	6.692 7.037	1.00 23.64 1.00 22.60
MOTA	2131	N LEU B 354	27.762	19.710	.7.764	1.00 16.03
ATOM ATOM	2132 2133	CA LEU B 354 C LEU B 354	27.579 27.244	20.814 22.116	8.704 7.957	1.00 17.28 1.00 22.35
ATOM ATOM	2134 2135	O LEU B 354 CB LEU B 354	26.380 28.857	22.849	8.466	1.00 20.33
MOTA	2136	CG LEU B 354	29.000	21.001 19.896	9.560 10.630	1.00 20.38 1.00 20.09
ATOM ATOM	2137 2138	CD1 LEU B 354 CD2 LEU B 354	30.374 27.921	20.090 20.070	11.265 11.703	1.00 17.36 1.00 20.87
ATOM ATOM	2139 2140	N VAL B 355	27.823	22.335	6.779	1.00 19.23
ATOM	2141	CA VAL B 355 C VAL B 355	27.379 25.888	23.565 23.480	6.039 5.746	1.00 21.68 1.00 24.26
ATOM ATOM	2142 2143	O VAL B 355 CB VAL B 355	25.072 28.129	24.395 23.625	5.890 4.686	1.00 24.15 1.00 27.74
MOTA	2144	CG1 VAL B 355	27.656	24.778	3.790	1.00 26.81
ATOM ATOM	2145 2146	CG2 VAL B 355 N HIS B 356	29.647 25.415	23.727 22.304	4.865 5.323	1.00 27.16 1.00 23.49
ATOM ATOM	2147 2148	CA HIS B 356 C HIS B 356	23.998 23.154	22.087 22.102	5.018 6.271	1.00 23.21 1.00 22.92
MOTA	2149	O HIS B 356	21.981	22.450	6.206	1.00 21.28

ATOM 2150 CB HIS B 356 23.798 20.750	4.290 1.00 22.36
ATOM 2151 CG HIS B 356 24.325 20.826 ATOM 2152 ND1 HIS B 356 23.899 21.870	2.886 1.00 34.11 2.082 1.00 37.17
ATOM 2152 NDI HIS B 356 25.899 21.870 ATOM 2153 CD2 HIS B 356 25.144 20.064	2.136 1.00 37.17
ATOM 2154 CE1 HIS B 356 24.458 21.758	0.892 1.00 41.58
ATOM 2155 NE2 HIS B 356 25.197 20.667	0.903 1.00 38.16
ATOM 2156 N MET B 357 23.731 21.675 ATOM 2157 CA MET B 357 22.903 21.723	7.431 1.00 20.58 8.643 1.00 22.73
ATOM 2157 CA MET B 357 22.303 21.723 ATOM 2158 C MET B 357 22.497 23.152	8.985 1.00 24.13
ATOM 2159 O MET B 357 21.409 23.360	9.509 1.00 21.21
ATOM 2160 CB MET B 357 23.662 21.090	9.825 1.00 20.64
ATOM 2161 CG MET B 357 22.815 20.946 ATOM 2162 SD MET B 357 23.835 20.185	11.072 1.00 22.76 12.386 1.00 19.26
ATOM 2163 CE MET B 357 24.212 18.588	11.655 1.00 23.13
ATOM 2164 N ILE B 358 23.412 24.115	8.842 1.00 22.55
ATOM 2165 CA ILE B 358 23.064 25.523	9.127 1.00 22.86
ATOM 2166 C ILE B 358 21.879 25.934 ATOM 2167 O ILE B 358 20.931 26.538	8.260 1.00 20.28 8.795 1.00 23.07
ATOM 2168 CB ILE B 358 24.241 26.456	8.781 1.00 25.27
ATOM 2169 CG1 ILE B 358 25.478 26.169	9.603 1.00 23.65
ATOM 2170 CG2 ILE B 358 23.830 27.946 ATOM 2171 CD1 ILE B 358 25.384 26.213	9.041 1.00 24.03 11.077 1.00 23.64
ATOM 2171 CD1 ILE B 358 25.384 26.213 ATOM 2172 N SER B 359 21.972 25.693	6.950 1.00 22.49
ATOM 2173 CA SER B 359 20.842 26.052	6.068 1.00 24.30
ATOM 2174 C SER B 359 19.550 25.362	6.492 1.00 23.34
ATOM 2175 O SER B 359 18.511 26.007 ATOM 2176 CB SER B 359 21.031 25.794	6.473 1.00 23.51 4.560 1.00 30.58
ATOM 2170 CB SER B 359 21.031 25.794 ATOM 2177 OG SER B 359 22.272 26.354	4.169 1.00 37.98
ATOM 2178 N TRP B 360 19.559 24.067	6.810 1.00 19.52
ATOM 2179 CA TRP B 360 18.403 23.362	7.307 1.00 19.34
ATOM 2180 C TRP B 360 17.853 24.045 ATOM 2181 O TRP B 360 16.636 24.272	8.542 1.00 21.70 8.688 1.00 23.01
ATOM 2182 CB TRP B 360 18.754 21.889	7.625 1.00 21.40
ATOM 2183 CG TRP B 360 17.855 21.145	8.551 1.00 21.72
ATOM 2184 CD1 TRP B 360 16.645 20.604 ATOM 2185 CD2 TRP B 360 18.032 20.823	8.179 1.00 23.33 9.939 1.00 19.39
ATOM 2185 CD2 TRP B 360 18.032 20.823 ATOM 2186 NE1 TRP B 360 16.043 19.988	9.280 1.00 21.79
ATOM 2187 CE2 TRP B 360 16.885 20.113	10.352 1.00 21.03
ATOM 2188 CE3 TRP B 360 19.033 21.075	10.873 1.00 19.08
ATOM 2189 CZ2 TRP B 360 16.711 19.580 ATOM 2190 CZ3 TRP B 360 18.880 20.573	11.641 1.00 18.45 12.184 1.00 19.70
ATOM 2190 CZ3 TRP B 360 18.880 20.573 ATOM 2191 CH2 TRP B 360 17.725 19.859	12.184 1.00 19.70
ATOM 2192 N ALA B 361 18.711 24.302	9.535 1.00 19.80
ATOM 2193 CA ALA B 361 18.209 24.862	10.782 1.00 19.54
ATOM 2194 C ALA B 361 17.544 26.215 ATOM 2195 O ALA B 361 16.518 26.490	10.542 1.00 24.20 11.134 1.00 22.57
ATOM 2195 O ALA B 361 10.310 20.490 ATOM 2196 CB ALA B 361 19.298 24.976	11.820 1.00 19.50
ATOM 2197 N LYS B 362 18.144 27.014	9.638 1.00 21.91
ATOM 2198 CA LYS B 362 17.525 28.297 ATOM 2199 C LYS B 362 16.166 28.178	9.321 1.00 26.89 8.665 1.00 26.81
ATOM 2199 C LYS B 362 16.166 28.178 ATOM 2200 O LYS B 362 15.389 29.173	8.663 1.00 28.44
ATOM 2201 CB LYS B 362 18.501 29.050	8.378 1.00 26.95
ATOM 2202 CG LYS B 362 19.611 29.591	9.321 1.00 31.89
ATOM 2203 CD LYS B 362 20.665 30.388 ATOM 2204 CE LYS B 362 20.241 31.816	8.556 1.00 36.74 8.263 1.00 38.32
ATOM 2205 NZ LYS B 362 21.058 32.445	7.174 1.00 40.64
ATOM 2206 N LYS B 363 15.821 27.028	8.119 1.00 21.94
ATOM 2207 CA LYS B 363 14.518 26.860 ATOM 2208 C LYS B 363 13.451 26.373	7.486 1.00 25.35 8.469 1.00 29.06
ATOM 2208 C LYS B 363 13.451 26.373 ATOM 2209 O LYS B 363 12.281 26.308	8.042 1.00 29.31
ATOM 2210 CB LYS B 363 14.619 25.913	6.297 1.00 22.51
ATOM 2211 CG LYS B 363 15.615 26.489	5.273 1.00 25.76
ATOM 2212 CD LYS B 363 15.698 25.515 ATOM 2213 CE LYS B 363 16.603 26.053	4.094 1.00 32.07
	3 000 1 00 34 68
	3.000 1.00 34.68 2.007 1.00 44.70
ATOM 2214 NZ LYS B 363 16.953 24.999 ATOM 2215 N ILE B 364 13.808 26.069	2.007 1.00 44.70 9.684 1.00 27.38
ATOM 2214 NZ LYS B 363 16.953 24.999 ATOM 2215 N ILE B 364 13.808 26.069 ATOM 2216 CA ILE B 364 12.773 25.623	2.007 1.00 44.70 9.684 1.00 27.38 10.671 1.00 29.33
ATOM 2214 NZ LYS B 363 16.953 24.999 ATOM 2215 N ILE B 364 13.808 26.069 ATOM 2216 CA ILE B 364 12.773 25.623 ATOM 2217 C ILE B 364 12.047 26.864	2.007 1.00 44.70 9.684 1.00 27.38 10.671 1.00 29.33 11.142 1.00 30.86
ATOM 2214 NZ LYS B 363 16.953 24.999 ATOM 2215 N ILE B 364 13.808 26.069 ATOM 2216 CA ILE B 364 12.773 25.623 ATOM 2217 C ILE B 364 12.047 26.864 ATOM 2218 O ILE B 364 12.650 27.796 ATOM 2219 CB ILE B 364 13.395 24.857	2.007 1.00 44.70 9.684 1.00 27.38 10.671 1.00 29.33 11.142 1.00 30.86 11.673 1.00 29.37 11.834 1.00 27.92
ATOM 2214 NZ LYS B 363 16.953 24.999 ATOM 2215 N ILE B 364 13.808 26.069 ATOM 2216 CA ILE B 364 12.773 25.623 ATOM 2217 C ILE B 364 12.047 26.864 ATOM 2218 O ILE B 364 12.650 27.796 ATOM 2219 CB ILE B 364 13.395 24.857 ATOM 2220 CG1 ILE B 364 13.941 23.545	2.007 1.00 44.70 9.684 1.00 27.38 10.671 1.00 29.33 11.142 1.00 30.86 11.673 1.00 29.37 11.834 1.00 27.92 11.255 1.00 35.56
ATOM 2214 NZ LYS B 363 16.953 24.999 ATOM 2215 N ILE B 364 13.808 26.069 ATOM 2216 CA ILE B 364 12.773 25.623 ATOM 2217 C ILE B 364 12.047 26.864 ATOM 2218 O ILE B 364 12.650 27.796 ATOM 2219 CB ILE B 364 13.395 24.857 ATOM 2220 CG1 ILE B 364 13.941 23.545 ATOM 2221 CG2 ILE B 364 12.345 24.497	2.007 1.00 44.70 9.684 1.00 27.38 10.671 1.00 29.33 11.142 1.00 30.86 11.673 1.00 29.37 11.834 1.00 27.92 11.255 1.00 35.56 12.901 1.00 31.49
ATOM 2214 NZ LYS B 363 16.953 24.999 ATOM 2215 N ILE B 364 13.808 26.069 ATOM 2216 CA ILE B 364 12.773 25.623 ATOM 2217 C ILE B 364 12.047 26.864 ATOM 2218 O ILE B 364 12.650 27.796 ATOM 2219 CB ILE B 364 13.395 24.857 ATOM 2220 CG1 ILE B 364 13.941 23.545	2.007 1.00 44.70 9.684 1.00 27.38 10.671 1.00 29.33 11.142 1.00 30.86 11.673 1.00 29.37 11.834 1.00 27.92 11.255 1.00 35.56
ATOM 2214 NZ LYS B 363 16.953 24.999 ATOM 2215 N ILE B 364 13.808 26.069 ATOM 2216 CA ILE B 364 12.773 25.623 ATOM 2217 C ILE B 364 12.047 26.864 ATOM 2218 O ILE B 364 12.650 27.796 ATOM 2219 CB ILE B 364 13.395 24.857 ATOM 2220 CG1 ILE B 364 13.941 23.545 ATOM 2221 CG2 ILE B 364 12.345 24.497 ATOM 2222 CD1 ILE B 364 14.792 22.804 ATOM 2223 N PRO B 365 10.733 26.896 ATOM 2224 CA PRO B 365 9.941 28.056	2.007 1.00 44.70 9.684 1.00 27.38 10.671 1.00 29.33 11.142 1.00 30.86 11.673 1.00 29.37 11.834 1.00 27.92 11.255 1.00 35.56 12.901 1.00 31.49 12.242 1.00 32.74 10.963 1.00 34.82 11.322 1.00 36.62
ATOM 2214 NZ LYS B 363 16.953 24.999 ATOM 2215 N ILE B 364 13.808 26.069 ATOM 2216 CA ILE B 364 12.773 25.623 ATOM 2217 C ILE B 364 12.047 26.864 ATOM 2218 O ILE B 364 12.650 27.796 ATOM 2219 CB ILE B 364 13.395 24.857 ATOM 2220 CG1 ILE B 364 13.941 23.545 ATOM 2221 CG2 ILE B 364 12.345 24.497 ATOM 2222 CD1 ILE B 364 14.792 22.804 ATOM 2223 N PRO B 365 10.733 26.896	2.007 1.00 44.70 9.684 1.00 27.38 10.671 1.00 29.33 11.142 1.00 30.86 11.673 1.00 29.37 11.834 1.00 27.92 11.255 1.00 35.56 12.901 1.00 31.49 12.242 1.00 32.74 10.963 1.00 34.82

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2227 2228 2229 2230 2231 2232 2233 2234 2235	CB CG CD N CA C O N	PRO B GLY B GLY B GLY B GLY B PHE B	365 365 366 366 366 367 367	8.495 8.540 9.903 10.626 10.960 12.397 12.818 13.209 14.576	27.578 26.408 25.808 29.867 30.546 30.406 31.122 29.505 29.367	11.208 10.293 10.380 12.731 13.971 14.442 15.344 13.848 14.330	1.00 34.89 1.00 37.43 1.00 36.52 1.00 35.19 1.00 35.04 1.00 36.83 1.00 32.74 1.00 31.04 1.00 28.81
ATOM ATOM	2236 2237	C 0		367 367	15.347 16.041	30.679 31.071	14.151 15.087	1.00 27.63 1.00 29.57
ATOM ATOM	2238 2239	CB CG		367 367	15.320 16.726	28.235 28.000	13.611 14.123	1.00 29.68 1.00 27.93
MOTA	2240 2241	CD1	PHE B	367	16.930	27.180	15.194	1.00 28.07
ATOM ATOM	2241	CD2 CE1	PHE B	367 367	17.821 18.209	28.601 26.951	13.513 15.704	1.00 26.67 1.00 29.07
ATOM ATOM	2243 2244	CE2 CZ		367 367	19.097 19.315	28.356 27.524	13.981 15.089	1.00 24.62 1.00 24.18
ATOM	2245	N	VAL B	368	15.198	31.350	13.010	1.00 31.59
ATOM ATOM	2246 2247	CA C		368 368	15.932 15.405	32.593 33.752	12.778 13.626	1.00 33.70 1.00 36.58
ATOM ATOM	2248 2249	O CB		368 368	16.049 15.910	34.803 33.003	13.614 11.301	1.00 37.80 1.00 32.36
MOTA	2250	CG1	VAL B	368	16.690	32.000	10.443	1.00 34.27
MOTA ATOM	2251 2252	CG2 N		368 369	14.475 14.302	33.098 33.609	10.777 14.325	1.00 38.21 1.00 38.63
ATOM	2253	CA	GLU B	369	13.715	34.607	15.203	1.00 43.96
MOTA MOTA	225 4 2255	С 0		369 369	14.224 13.893	34.433 35.211	16.625 17.524	1.00 45.39 1.00 43.91
MOTA MOTA	2256 2257	CB CG		369 369	12.190 11.644	34.521 34.939	15.182 13.823	1.00 50.15 1.00 56.65
MOTA	2258	CD	GLU B	369	10.217	34.475	13.615	1.00 60.83
MOTA MOTA	2259 2260	OE1 OE2	GLU B	369 369	9.519 9.811	34.182 34.400	14.605 12.434	1.00 62.32 1.00 63.35
ATOM ATOM	2261 2262	N CA		370. 370	14.973 15.622	33.349 33.121	16.842 18.115	1.00 38.98 1.00 35.51
ATOM	2263	С	LEU B	370	16.828	34.093	18.159	1.00 34.78
ATOM ATOM	2264 2265	O CB		370 370	17.353 16.152	34.493 31.688	17.120 18.280	1.00 36.72 1.00 33.38
ATOM ATOM	2266 2267	CG CD1		370 370	15.046 15.690	30.619 29.241	18.367 18.490	1.00 33.47 1.00 33.96
MOTA	2268	CD2	LEU B	370	14.042	30.909	19.489	1.00 31.83
ATOM ATOM	2269 2270	N CA		371 371	17.257 18.406	34.414 35.290	19.362 19.526	1.00 36.47 1.00 36.59
ATOM ATOM	2271 2272	C O		371	19.642 19.671	34.602 33.352	18.968 18.929	1.00 38.96 1.00 33.42
MOTA	2273	CB	SER B	371	18.660	35.563	21.010	1.00 36.21
ATOM ATOM	2274 2275	OG N	SER B LEU B		19.276 20.661	34.476 35.404	21.679 18.625	1.00 34.10 1.00 32.71
ATOM ATOM	2276 2277	CA C	LEU B		21.898 22.467	34.838 33.829	18.130 19.087	1.00 29.93 1.00 29.34
MOTA	2278	0	LEU B	372	23.071	32.823	18.709	1.00 32.54
MOTA MOTA	2279 2280	CB CG	LEU B		22.919 24.270	35.966 35.675	17.938 17.321	1.00 34.52 1.00 37.48
ATOM ATOM	2281 2282	CD1	LEU B	372	24.186 24.881	34.767 37.017	16.098 16.879	1.00 37.75 1.00 43.32
ATOM	2283	N	PHE B	373	22.498	34.206	20.393	1.00 28.95
ATOM ATOM	2284 2285	CA C	PHE B		23.087 22.304	33.272 31.967	21.358 21.429	1.00 33.97 1.00 29.91
ATOM ATOM	2286 2287	O CB	PHE B	373	22.960 23.265	30.926 33.954	21.545 22.720	1.00 29.72 1.00 37.52
ATOM	2288	CG	PHE B	373	24.325	35.046	22.637	1.00 41.67
ATOM ATOM	2289 2290	CD1 CD2	PHE B PHE B		25.146 24.528	35.196 35.901	21.539 23.707	1.00 46.80 1.00 46.96
ATOM ATOM	2291 2292		PHE B PHE B	373	26.109 25.492	36.176 36.899	21.462 23.645	1.00 49.01 1.00 46.70
MOTA	2293	CZ	PHE B	373	26.278	37.025	22.527	1.00 46.90
MOTA ATOM	2294 2295	N CA	ASP B ASP B	374	20.973 20.191	32.048 30.812	21.348 21.427	1.00 31.02 1.00 31.49
ATOM ATOM	2296 2297	C O	ASP B	374	20.446 20.678	29.964 28.765	20.153 20.260	1.00 33.16 1.00 28.96
ATOM	2298	CB	ASP B	374	18.706	31.023	21.603	1.00 31.44
ATOM ATOM	2299 2300	CG OD1	ASP B ASP B		18.273 19.090	31.344 31.228	23.033 23.962	1.00 36.83 1.00 43.81
ATOM ATOM	2301 2302	OD2 N		374	17.094 20.495	31.748 30.611	23.160 19.008	1.00 39.45 1.00 29.43
ATOM	2302	CA	GLN B		20.774	29.839	17.775	1.00 28.70

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316	C GLN B 375 O GLN B 375 CB GLN B 375 CG GLN B 375 OE1 GLN B 375 NE2 GLN B 375 N VAL B 376 CA VAL B 376 C VAL B 376 C VAL B 376 CB VAL B 376 CG VAL B 376 CG VAL B 376	20.788 19.398 19.409 20.055 18.679 23.156 24.475	29.093 27.926 30.768 31.276 32.132 31.841 33.254 29.788 29.229 28.156 27.136 30.309 29.701	17.902 17.537 16.555 16.157 14.909 13.902 14.933 18.273 18.402 19.479 19.230 18.686 18.752	1.00 28.91 1.00 24.32 1.00 25.04 1.00 26.15 1.00 31.28 1.00 33.19 1.00 34.93 1.00 26.24 1.00 24.06 1.00 24.86 1.00 27.38 1.00 28.98 1.00 32.68
ATOM	2317	CG2 VAL B 376 N ARG B 377 CA ARG B 377 C ARG B 377 O ARG B 377	25.523	31.331	17.536	1.00 30.22
ATOM	2318		23.908	28.345	20.632	1.00 24.35
ATOM	2319		24.042	27.277	21.626	1.00 25.87
ATOM	2320		23.297	26.014	21.143	1.00 21.79
ATOM	2321		23.788	24.893	21.450	1.00 25.08
ATOM	2322	CB ARG B 377 CG ARG B 377 CD ARG B 377 NE ARG B 377 CZ ARG B 377	23.560	27.650	23.028	1.00 33.86
ATOM	2323		22.067	27.918	23.037	1.00 34.88
ATOM	2324		21.449	27.510	24.366	1.00 47.44
ATOM	2325		20.176	28.177	24.596	1.00 49.34
ATOM	2326		19.171	27.713	25.323	1.00 51.60
MOTA MOTA MOTA MOTA MOTA	2327	NH1 ARG B 377	18.060	28.424	25.451	1.00 52.27
	2328	NH2 ARG B 377	19.257	26.509	25.900	1.00 53.69
	2329	N LEU B 378	22.163	26.167	20.499	1.00 21.68
	2330	CA LEU B 378	21.460	24.947	20.012	1.00 20.41
	2331	C LEU B 378	22.314	24.160	19.032	1.00 21.16
ATOM	2332	O LEU B 378 CB LEU B 378 CG LEU B 378 CD1 LEU B 378 CD2 LEU B 378	22.467	22.933	19.106	1.00 20.81
ATOM	2333		20.113	25.303	19.394	1.00 24.70
ATOM	2334		19.087	25.959	20.354	1.00 27.24
ATOM	2335		17.809	26.231	19.595	1.00 31.14
ATOM	2336		18.810	25.096	21.555	1.00 27.64
MOTA	2337	N LEU B 379 CA LEU B 379 C LEU B 379 O LEU B 379 CB LEU B 379	22.898	24.882	18.050	1.00 24.82
MOTA	2338		23.728	24.202	17.033	1.00 20.15
MOTA	2339		24.979	23.625	17.606	1.00 20.62
MOTA	2340		25.339	22.469	17.307	1.00 20.65
MOTA	2341		24.073	25.249	15.953	1.00 23.91
ATOM	2342	CG LEU B 379	22.907	25.518	14.998	1.00 27.86
ATOM	2343	CD1 LEU B 379	23.168	26.790	14.196	1.00 26.74,
ATOM	2344	CD2 LEU B 379	22.716	24.332	14.054	1.00 30.30
ATOM	2345	N GLU B 380	25.609	24.340	18.583	1.00 20.83
ATOM	2346	CA GLU B 380	26.837	23.816	19.195	1.00 27.24
ATOM	2347	C GLU B 380	26.566	22.557	19.997	1.00 25.34
ATOM	2348	O GLU B 380	27.398	21.656	20.096	1.00 28.66
ATOM	2349	CB GLU B 380	27.454	24.857	20.156	1.00 35.51
ATOM	2350	CG GLU B 380	28.304	24.298	21.268	1.00 45.36
ATOM	2351	CD GLU B 380	27.717	23.925	22.601	1.00 52.55
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2352 2353 2354 2355 2356 2357	OE1 GLU B 380 OE2 GLU B 380 N SER B 381 CA SER B 381 C SER B 381 O SER B 381	26.687 28.296 25.400 25.074 24.624 24.823	24.467 23.028 22.493 21.322 20.084 18.963	23.075 23.260 20.619 21.439 20.669 21.145	1.00 55.73 1.00 58.84 1.00 19.01 1.00 23.22 1.00 24.76 1.00 27.36
ATOM	2358	CB SER B 381 OG SER B 381 N CYS B 382 CA CYS B 382 C CYS B 382	23.905	21.791	22.336	1.00 28.20
ATOM	2359		23.489	20.648	23.074	1.00 38.79
ATOM	2360		23.990	20.220	19.529	1.00 23.25
ATOM	2361		23.404	19.066	18.844	1.00 22.65
ATOM	2362		24.073	18.600	17.567	1.00 20.33
ATOM	2363	O CYS B 382	23.538	17.569	17.123	1.00 17.89
ATOM	2364	CB CYS B 382	21.960	19.551	18.367	1.00 21.13
ATOM	2365	SG CYS B 382	21.899	20.543	16.890	1.00 23.58
ATOM	2366	N TRP B 383	25.182	19.230	17.120	1.00 20.02
ATOM	2367	CA TRP B 383	25.567	18.848	15.756	1.00 20.25
ATOM ATOM ATOM ATOM	2368 2369 2370 2371 2372	C TRP B 383 O TRP B 383 CB TRP B 383 CG TRP B 383 CD1 TRP B 383 CD2 TRP B 383	25.893 25.465 26.621 27.931 28.297	17.398 16.824 19.831 19.774 20.590	15.544 14.535 15.176 15.903 16.947	1.00 18.10 1.00 16.94 1.00 15.50 1.00 21.30 1.00 22.04
ATOM	2373	CD2 TRP B 383	29.040	18.897	15.667	1.00 21.19
ATOM	2374	NE1 TRP B 383	29.577	20.278	17.340	1.00 23.74
ATOM	2375	CE2 TRP B 383	30.039	19.223	16.606	1.00 24.97
ATOM	2376	CE3 TRP B 383	29.270	17.851	14.766	1.00 20.19
ATOM	2377	CZ2 TRP B 383	31.274	18.571	16.630	1.00 20.39
ATOM	2378	CZ3 TRP B 383	30.499	17.160	14.825	1.00 21.36
ATOM	2379	CH2 TRP B 383	31.458	17.535	15.771	1.00 21.33
ATOM	2380	N MET B 384	26.697	16.818	16.461	1.00 14.48

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2381 2382 2383 2384 2385 2386 2387 2388	CA C O CB CG SD CE N	MET B GLU B	384 384 384 384 384 384 385	27.004 25.728 25.586 28.076 28.416 29.317 30.967 24.841	15.391 14.554 13.590 14.944 13.468 13.154 13.601 14.861	16.204 16.309 15.552 17.205 16.921 15.378 15.920 17.239	1.00 14.60 1.00 13.50 1.00 14.76 1.00 18.83 1.00 18.80 1.00 21.33 1.00 23.47 1.00 15.97
ATOM ATOM	2389 2390	CA C	GLU B GLU B	385 385	23.603 22.800	14.096 14.180	17.375 16.053	1.00 15.88 1.00 17.29
ATOM	2391	0	GLU B	385	22.252	13.187	15.627	1.00 16.01
ATOM ATOM	2392 2393	CB CG	GLU B	385 385	22.771 21.809	14.484 13.374	18.620 19.058	1.00 17.76 1.00 24.52
ATOM	2394	CD	GLU B	385	20.950	13.711	20.264	1.00 26.25
ATOM ATOM	2395 2396	OE1 OE2		385 385	21.287 19.912	14.670 13.009	21.028 20.370	1.00 22.77 1.00 29.33
ATOM	2397	N	VAL B	386	22.686	15.386	15.517	1.00 14.08
MOTA MOTA	2398 2399	CA C	VAL B VAL B	386 386	21.948 22.635	15.518 14.769	14.231 13.091	1.00 16.32 1.00 16.83
ATOM	2400	O		386	21.963	14.085	12.304	1.00 19.89
MOTA ATOM	2401 2402	CB CG1	VAL B VAL B	386 386	21.759 21.078	16.989 17.126	13.868 12.493	1.00 17.16 1.00 18.55
ATOM ATOM	2403 2404		VAL B LEU B	386 387	20.831	17.639	14.899	1.00 19.24
ATOM	2404	N CA	LEU B		23.950 24.632	14.819 14.051	13.024 11.988	1.00 15.69 1.00 14.03
ATOM ATOM	2406 2407	C	LEU B LEU B	387	24.304	12.553	12.172	1.00 18.05
ATOM	2408	СВ		387	24.032 26.147	11.850 14.161	11.171 12.110	1.00 17.52 1.00 14.39
ATOM ATOM	2409 2410	CG CD1		387 387	26.684 28.223	15.512 15.484	11.597 11.684	1.00 21.48 1.00 17.40
ATOM	2411	CD2	LEU B	387	26.219	15.869	10.180	1.00 17.40 1.00 23.01
ATOM ATOM	2412 2413	N CA	MET B	388 388	24.426 24.204	12.102 10.641	13.447 13.637	1.00 17.21 1.00 15.95
ATOM	2414	С	MET B	388	22.776	10.262	13.407	1.00 21.51
ATOM ATOM	2415 2416	O CB		388 388	22.538 24.684	9.135 10.247	12.961 15.053	1.00 16.11 1.00 14.53
ATOM	2417	CG	MET B	388	26.216	10.335	15.089	1.00 17.68
ATOM ATOM	2418 2419	SD CE	MET B MET B	388 388	26.703 28.434	9.858 9.539	16.808 16.435	1.00 16.78 1.00 17.17
MOTA	2420	N	MET B	389	21.760	11.053	13.738	1.00 17.83
ATOM ATOM	2421 2422	CA C	MET B MET B	389 389	20.368 20.181	10.687 10.547	13.470 11.948	1.00 19.28 1.00 20.51
ATOM	2423	0	MET B	389	19.564	9.597	11.434	1.00 20.84
ATOM ATOM	2424 2425	CB CG	MET B	389 389	19.417 17.931	11.761 11.408	14.052 13.836	1.00 21.16 1.00 25.05
ATOM	2426	SD	MET B	389	17.528	10.080	15.014	1.00 23.55
ATOM ATOM	2427 2428	CE N	MET B GLY B	389 390	16.196 20.779	9.227 11.421	14.208 11.147	1.00 30.08 1.00 16.73
ATOM ATOM	2429 2430	CA C	GLY B	390	20.738 21.392	11.345 10.039	9.678	1.00 18.39
MOTA	2431	Õ	GLY B	390	20.834	9.346	9.195 8.340	1.00 23.35 1.00 21.82
ATOM ATOM	2432 2433	N CA		391 391	22.525 23.183	9.700 8.413	9.795 9.465	1.00 21.91 1.00 22.72
MOTA	2434	C	LEU B	391	22.302	7.209	9.769	1.00 20.25
MOTA MOTA	2435 2436	O CB		391 391	22.250 24.496	6.183 8.326	9.027 10.207	1.00 23.27 1.00 21.80
MOTA	2437	CG	LEU B	391	25.207	6.966	10.253	1.00 22.44
ATOM ATOM	2438 2439			391 391	25.705 26.375	6.605 7.025	8.831 11.212	1.00 21.14 1.00 21.16
MOTA	2440	N	MET B	392	21.655	7.214	10.935	1.00 20.70
ATOM ATOM	2441 2442	CA C		392 392	20.773 19.598	6.122 5.983	11.304 10.367	1.00 20.15 1.00 24.21
MOTA	2443	O	MET B	392	19.317	4.873	9.923	1.00 22.83
ATOM ATOM	2444 2445	CB CG		392 392	20.246 21.386	6.277 6.151	12.746 13.732	1.00 23.62 1.00 24.52
ATOM ATOM	2446 2447	SD CE	MET B	392 392	20.748 22.377	6.520 6.498	15.414 16.202	1.00 28.58 1.00 28.75
MOTA	2448	N	TRP B	393	18.950	7.099	9.981	1.00 28.73
ATOM ATOM	2449 2450	CA C		393 393	17.847 18.365	6.961 6.485	9.029 7.681	1.00 20.61 1.00 24.48
MOTA	2451	0	TRP B	393	17.723	5.623	7.059	1.00 28.06
ATOM ATOM	2452 2453	CB CG		393 393	17.227 16.260	8.374 8.471	8.916 7.766	1.00 23.80 1.00 24.50
ATOM	2454	CD1	TRP B	393	16.431	9.098	6.579	1.00 24.58
ATOM ATOM	2455 2456	CD2 NE1	TRP B	393 393	14.972 15.290	7.840 8.917	7.738 5.796	1.00 21.38 1.00 27.40
MOTA	2457		TRP B		14.391	8.154	6.503	1.00 28.66

ATOM ATOM ATOM	2458 2459 2460	CE3 CZ2 CZ3	TRP B 3 TRP B 3	93	14.267 13.124 13.010	7.037 7.673 6.566	8.657 6.163 8.295	1.00 24.75 1.00 28.29 1.00 27.11
MOTA MOTA	2461 2462	CH2 N	TRP B 3 ARG B 3	93 94	12.460 19.505	6.901 6.966	7.048 7.186	1.00 27.45 1.00 23.13
ATOM ATOM ATOM	2463 2464 2465	CA C O	ARG B 3 ARG B 3 ARG B 3	94	20.018 20.358 20.390	6.491 5.007 4.287	5.889 5.979 4.973	1.00 24.56 1.00 26.56 1.00 29.56
ATOM ATOM ATOM	2466 2467 2468	CB CG CD	ARG B 3 ARG B 3 ARG B 3	94	21.306 21.074 22.315	7.218 8.645 9.317	5.445 4.950 4.420	1.00 23.42 1.00 23.53 1.00 26.61
ATOM ATOM ATOM	2469 2470 2471	NE CZ NH1	ARG B 3 ARG B 3 ARG B 3	94	23.421 23.630 22.726	9.413 10.344 11.331	5.344 6.297 6.457	1.00 23.76 1.00 25.92 1.00 22.67
ATOM ATOM ATOM	2472 2473 2474		ARG B 3 SER B 3 SER B 3	94 9.5	24.719 20.764 21.176	10.304 4.502 3.121	7.022 7.115 7.281	1.00 22.50 1.00 23.85 1.00 23.86
ATOM ATOM	2475 2476	C 0	SER B 3 SER B 3	95 95	20.068 20.347	2.181 1.019	7.720 7.877	1.00 24.73 1.00 30.38
MOTA MOTA MOTA	2477 2478 2479	CB OG N	SER B 3 SER B 3 ILE B 3	95 96	22.242 23.323 18.834	3.119 3.973 2.641	8.389 8.015 7.857	1.00 25.71 1.00 27.34 1.00 26.38
MOTA ATOM MOTA	2480 2481 2482	CA C O	ILE B 3 ILE B 3	96	17.781 17.402 17.107	1.858 0.603 -0.388	8.483 7.714 8.375	1.00 28.13 1.00 34.05 1.00 36.61
ATOM ATOM ATOM	2483 2484 2485	CB CG1 CG2	ILE B 3 ILE B 3 ILE B 3	96	16.621 15.694 15.806	2.803 2.324 3.086	8.794 9.911 7.517	1.00 31.52 1.00 35.64 1.00 35.73
ATOM ATOM ATOM	2486 2487 2488		ILE B 3 ASP B 3 ASP B 3	96 97	14.689 17.500 17.150	3.407 0.642 -0.561	10.306 6.395 5.623	1.00 34.63 1.00 30.79 1.00 35.31
ATOM ATOM ATOM	2489 2490 2491	C O CB	ASP B 3 ASP B 3 ASP B 3	97 97	18.390 18.306 16.327	-1.323 -2.164 -0.097	5.207 4.290 4.413	1.00 39.39 1.00 41.34 1.00 36.48
ATOM ATOM	2492 2493	CG OD1	ASP B 3 ASP B 3	97 97	14.950 14.307 14.411	0.392 -0.118 1.326	4.797 5.739 4.186	1.00 38.41 1.00 42.42 1.00 43.72
ATOM ATOM ATOM	2494 2495 2496	N CA	ASP B 3 HIS B 3 HIS B 3	98 98	19.565 20.800	-1.140 -1.831	5.795 5.448	1.00 34.30 1.00 33.99
ATOM ATOM ATOM	2497 2498 2499	C O CB	HIS B 3 HIS B 3 HIS B 3	98 98	21.512 22.577 21.773	-2.367 -1.931 -0.937	6.666 7.129 4.621	1.00 32.82 1.00 31.78 1.00 32.15
ATOM ATOM ATOM	2500 2501 2502	CD2	HIS B 3 HIS B 3 HIS B 3	98 98	21.111 20.631 20.791	-0.344 0.946 -0.849	3.416 3.405 2.203	1.00 39.99 1.00 47.14 1.00 40.00
ATOM ATOM ATOM	2503 2504 2505	CE1 NE2 N	HIS B 3 HIS B 3 PRO B 3	98 99	20.049 20.127 20.997	1.222 0.138 -3.480	2.255 1.505 7.213	1.00 45.76 1.00 45.33 1.00 32.19
ATOM ATOM ATOM	2506 2507 2508	CA C O	PRO B 3 PRO B 3 PRO B 3	99	21.603 23.046 23.508	-4.117 -4.448 -4.725	8.377 8.135 7.021	1.00 31.87 1.00 29.07 1.00 34.53
ATOM ATOM ATOM	2509 2510 2511	CB CG CD	PRO B 3 PRO B 3 PRO B 3	99 '	20.694 19.681 19.797	-5.275 -5.366 -4.199	8.753 7.687 6.757	1.00 35.73 1.00 34.94 1.00 34.15
ATOM ATOM ATOM	2512 2513 2514	N CA C	GLY B 4 GLY B 4 GLY B 4	00 .	23.871 25.300 26.084	-4.247 -4.470 -3.377	9.145 9.167 8.472	1.00 24.75 1.00 31.04 1.00 26.14
ATOM ATOM ATOM	2515 2516 2517	O N CA	GLY B 4 LYS B 4 LYS B 4	00 01	27.310 25.464 26.215	-3.481 -2.344 -1.291	8.447 7.923 7.249	1.00 33.44 1.00 27.98 1.00 27.46
ATOM ATOM ATOM	2518 2519 2520	C O CB	LYS B 4 LYS B 4 LYS B 4	01 01	25.856 24.718 25.821	0.115 0.303 -1.148	7.788 8.222 5.776	1.00 27.45 1.00 24.43 1.00 27.97
ATOM ATOM ATOM	2521 2522 2523	CG CD CE	LYS B 4 LYS B 4 LYS B 4	01 01	26.773 26.112 26.659	-1.932 -3.245 -3.895	4.848 4.546 3.278	1.00 40.85 1.00 44.41 1.00 47.73
ATOM ATOM ATOM	2524 2525 2526	NZ N CA	LYS B 4 LEU B 4 LEU B 4	01 02	25.668 26.821 26.566	-4.872 1.008 2.427	2.737 7.581 7.952	1.00 52.90 1.00 26.26 1.00 24.76
ATOM ATOM	2527 2528	C 0	LEU B 4 LEU B 4	02 02	26.626 27.723	3.231 3.311	6.668 6.078	1.00 21.76 1.00 25.19 1.00 25.71
ATOM ATOM ATOM	2529 2530 2531		LEU B 4 LEU B 4 LEU B 4	02 02	27.563 27.398 28.525	2.905 2.307 2.816	9.012 10.426 11.330	1.00 24.37 1.00 26.93 1.00 27.97
ATOM ATOM ATOM	2532 2533 2534	N CA	LEU B 4 ILE B 4 ILE B 4	03	26.031 25.500 25.509	2.617 3.763 4.564	11.052 6.196 4.969	1.00 27.97 1.00 21.80 1.00 22.69

ATOM 2590 O LEU B 410 29.347 -0.047 6.917 1.00 30.92	ATOM 2591 CB LEU B 410 31.704 1.959 6.625 1.00 27.54 ATOM 2592 CG LEU B 410 32.422 3.213 6.106 1.00 30.97 ATOM 2593 CD1 LEU B 410 33.120 3.953 7.234 1.00 31.37 ATOM 2594 CD2 LEU B 410 33.403 2.827 4.982 1.00 27.37 ATOM 2595 N ASP B 411 31.076 -1.196 6.010 1.00 30.35 ATOM 2596 CA ASP B 411 30.653 -2.412 6.717 1.00 33.84 ATOM 2597 C ASP B 411 31.102 -2.276 8.164 1.00 30.61	ATOM 2591 CB LEU B 410 31.704 1.959 6.625 1.00 27.54 ATOM 2592 CG LEU B 410 32.422 3.213 6.106 1.00 30.97 ATOM 2593 CD1 LEU B 410 33.120 3.953 7.234 1.00 31.37 ATOM 2594 CD2 LEU B 410 33.403 2.827 4.982 1.00 27.37 ATOM 2595 N ASP B 411 31.076 -1.196 6.010 1.00 30.35 ATOM 2596 CA ASP B 411 30.653 -2.412 6.717 1.00 33.84 ATOM 2597 C ASP B 411 31.102 -2.276 8.164 1.00 30.61 ATOM 2598 O ASP B 411 32.149 -1.691 8.457 1.00 30.55 ATOM 2599 CB ASP B 411 31.307 -3.645 6.059 1.00 39.46 ATOM 2600 CG ASP B 411 30.415 -4.056 4.899 1.00 47.55 ATOM 2601 OD1 ASP B 411 30.302 -3.357 3.883 1.00 52.15 ATOM 2602 OD2 ASP B 411 29.773 -5.106 5.083 1.00 58.50 ATOM 2603 N ARG B 412 30.311 -2.868 9.050 1.00 29.95 ATOM 2604 CA ARG B 412 30.622 -2.877 10.474 1.00 33.26	ATOM 2591 CB LEU B 410 31.704 1.959 6.625 1.00 27.54 ATOM 2592 CG LEU B 410 32.422 3.213 6.106 1.00 30.97 ATOM 2593 CD1 LEU B 410 33.120 3.953 7.234 1.00 31.37 ATOM 2594 CD2 LEU B 410 33.403 2.827 4.982 1.00 27.37 ATOM 2595 N ASP B 411 31.076 -1.196 6.010 1.00 30.35 ATOM 2596 CA ASP B 411 30.653 -2.412 6.717 1.00 33.84 ATOM 2597 C ASP B 411 31.102 -2.276 8.164 1.00 30.61 ATOM 2598 O ASP B 411 32.149 -1.691 8.457 1.00 30.61 ATOM 2599 CB ASP B 411 31.307 -3.645 6.059 1.00 39.46 ATOM 2600 CG ASP B 411 30.415 -4.056 4.899 1.00 47.55 ATOM 2601 OD1 ASP B 411 30.302 -3.357 3.883 1.00 52.15 ATOM 2602 OD2 ASP B 411 29.773 -5.106 5.083 1.00 58.50 ATOM 2603 N ARG B 412 30.311 -2.868 9.050 1.00 29.95 ATOM 2604 CA ARG B 412 30.622 -2.877 10.474 1.00 33.26	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5678901234567890 222222222222222222222222222222222222	CB ILE I CB ILE I CG1 ILE I CG2 ILE I CG2 ILE I CG2 ILE I CG3 ILE I CG4 ILE I CG5 ILE I CG6 ILE I CG7 ILE I CG8 ILE I CG8 ILE I CG9 ILE I CG	403 404 404 404 404 404 404 404	29.998 30.763 28.159 27.482 27.139 30.037 30.973 30.376	1.992 0.811 2.874 1.887 1.134	1.775 2.453 1.070 4.763 5.549 6.252	1.00 23.32 1.00 24.13 1.00 24.13 1.00 32.41 1.00 24.82 1.00 25.16 1.00 24.43 1.00 24.33 1.00 24.33 1.00 20.55 1.00 21.35 1.00 23.05 1.00 21.86 1.00 29.31 1.00 37.23 1.00 37.23 1.00 37.23 1.00 32.36 1.00 37.23 1.00 32.36 1.00 32.36 1.00 37.23 1.00 37.23 1.00 38.70 1.00 37.23 1.00 29.67 1.00 29.67 1.00 29.67 1.00 29.67 1.00 29.67 1.00 29.67 1.00 29.67 1.00 29.67 1.00 27.05 1.00 27.05 1.00 27.05 1.00 27.05 1.00 27.53 1.00 27.53 1.00 27.53 1.00 27.53 1.00 27.53 1.00 30.60 1.00 31.74 1.00 27.53 1.00 27.53 1.00 27.53 1.00 27.53 1.00 37.22 1.00 37.22 1.00 37.22 1.00 37.22 1.00 37.22 1.00 37.22 1.00 37.22 1.00 37.22 1.00 37.22	
	ATOM 2591 CB LEU B 410 31.704 1.959 6.625 1.00 27.54 ATOM 2592 CG LEU B 410 32.422 3.213 6.106 1.00 30.97 ATOM 2593 CD1 LEU B 410 33.120 3.953 7.234 1.00 31.37 ATOM 2594 CD2 LEU B 410 33.403 2.827 4.982 1.00 27.37 ATOM 2595 N ASP B 411 31.076 -1.196 6.010 1.00 30.35 ATOM 2596 CA ASP B 411 30.653 -2.412 6.717 1.00 33.84 ATOM 2597 C ASP B 411 31.102 -2.276 8.164 1.00 30.61	ATOM 2591 CB LEU B 410 31.704 1.959 6.625 1.00 27.54 ATOM 2592 CG LEU B 410 32.422 3.213 6.106 1.00 30.97 ATOM 2593 CD1 LEU B 410 33.120 3.953 7.234 1.00 31.37 ATOM 2594 CD2 LEU B 410 33.403 2.827 4.982 1.00 27.37 ATOM 2595 N ASP B 411 31.076 -1.196 6.010 1.00 30.35 ATOM 2596 CA ASP B 411 30.653 -2.412 6.717 1.00 33.84 ATOM 2597 C ASP B 411 31.102 -2.276 8.164 1.00 30.61 ATOM 2598 O ASP B 411 32.149 -1.691 8.457 1.00 30.61 ATOM 2599 CB ASP B 411 31.307 -3.645 6.059 1.00 39.46 ATOM 2600 CG ASP B 411 30.415 -4.056 4.899 1.00 47.55 ATOM 2601 OD1 ASP B 411 30.302 -3.357 3.883 1.00 52.15 ATOM 2602 OD2 ASP B 411 29.773 -5.106 5.083 1.00 58.50 ATOM 2603 N ARG B 412 30.311 -2.868 9.050 1.00 29.95 ATOM 2604 CA ARG B 412 30.622 -2.877 10.474 1.00 33.26	ATOM 2591 CB LEU B 410 31.704 1.959 6.625 1.00 27.54 ATOM 2592 CG LEU B 410 32.422 3.213 6.106 1.00 30.97 ATOM 2593 CD1 LEU B 410 33.120 3.953 7.234 1.00 31.37 ATOM 2594 CD2 LEU B 410 33.403 2.827 4.982 1.00 27.37 ATOM 2595 N ASP B 411 31.076 -1.196 6.010 1.00 30.35 ATOM 2596 CA ASP B 411 30.653 -2.412 6.717 1.00 33.84 ATOM 2597 C ASP B 411 31.102 -2.276 8.164 1.00 30.61 ATOM 2598 O ASP B 411 31.102 -2.276 8.164 1.00 30.55 ATOM 2599 CB ASP B 411 31.307 -3.645 6.059 1.00 39.46 ATOM 2599 CB ASP B 411 30.415 -4.056 4.899 1.00 47.55 ATOM 2600 CG ASP B 411 30.302 -3.357 3.883 1.00 52.15 ATOM 2601 OD1 ASP B 411 30.302 -3.357 3.883 1.00 52.15 ATOM 2602 OD2 ASP B 411 29.773 -5.106 5.083 1.00 58.50 ATOM 2603 N ARG B 412 30.311 -2.868 9.050 1.00 29.95 ATOM 2604 CA ARG B 412 30.622 -2.877 10.474 1.00 33.26 ATOM 2605 C ARG B 412 32.082 -3.177 10.738 1.00 35.75 ATOM 2606 O ARG B 412 32.791 -2.445 11.412 1.00 34.51 ATOM 2608 CG ARG B 412 32.791 -2.445 11.412 1.00 34.51 ATOM 2608 CG ARG B 412 32.791 -2.445 11.412 1.00 34.51 ATOM 2608 CG ARG B 412 39.683 -3.891 11.142 1.00 34.51 ATOM 2608 CG ARG B 412 39.683 -3.893 12.664 1.00 37.89 ATOM 2609 CD ARG B 412 30.653 -5.027 13.176 1.00 44.63 ATOM 2609 CD ARG B 412 30.653 -5.027 13.176 1.00 44.63 ATOM 2601 NE ARG B 412 30.653 -5.027 13.176 1.00 44.63	ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2583 2584 2585 2586 2587 2588 2589	O VAL E CB VAL E CG1 VAL E CG2 VAL E N LEU E CA LEU E C LEU E	3 409 3 409 3 409 3 409 3 410 3 410	30.763 28.159 27.482 27.139 30.037 30.973 30.376	1.161 1.992 0.811 2.874 1.887 1.134	2.787 1.775 2.453 1.070 4.763 5.549 6.252	1.00 30.60 1.00 31.29 1.00 29.21 1.00 27.53 1.00 27.22 1.00 27.72 1.00 32.86	

ATOM 2633 C GLY B 415 36.892 -0.655 12.772 1.00 39.93 ATOM 2635 C GLY B 415 37.534 0.065 13.534 1.00 36.99 ATOM 2636 CA LYS B 416 37.442 -1.834 12.419 1.00 40.99 ATOM 2637 C LYS B 416 39.867 -1.387 12.596 1.00 39.91 ATOM 2638 O LYS B 416 39.867 -1.387 12.597 1.00 39.91 ATOM 2638 O LYS B 416 38.9867 -1.387 12.597 1.00 39.91 ATOM 2639 CB LYS B 416 38.996 -3.731 12.591 1.00 45.05 ATOM 2640 CG LYS B 416 38.996 -3.731 12.591 1.00 45.05 ATOM 2640 CG LYS B 416 38.912 -6.656 13.358 1.00 57.86 ATOM 2641 CD LYS B 416 38.051 -4.656 13.358 1.00 55.85 ATOM 2642 CE LYS B 416 38.112 -6.062 12.770 1.00 50.38 ATOM 2641 CD LYS B 416 37.618 -6.901 15.056 1.00 57.86 ATOM 2642 CE LYS B 416 37.618 -6.901 15.056 1.00 57.85 ATOM 2644 N CYS B 417 40.649 0.299 10.915 1.00 38.42 ATOM 2645 CA CYS B 417 40.649 0.299 10.915 1.00 38.42 ATOM 2646 C CYS B 417 40.649 0.299 10.915 1.00 38.42 ATOM 2648 CB CYS B 417 40.649 0.299 10.915 1.00 38.83 ATOM 2650 N VAL B 418 40.239 1.960 12.775 1.00 49.95 ATOM 2649 SG CYS B 417 40.175 0.938 9.589 1.00 44.73 ATOM 2651 CA VAL B 418 40.670 3.094 13.606 1.00 25.58 ATOM 2650 N VAL B 418 40.670 3.094 13.606 1.00 25.58 ATOM 2655 CG LYAL B 418 40.670 3.094 13.606 1.00 27.29 ATOM 2656 CB CYAL B 418 40.670 3.094 13.606 1.00 25.58 ATOM 2655 CG LYAL B 418 39.598 4.2113 1.406 1.00 28.69 ATOM 2656 CG CG LYAL B 418 39.598 4.2113 1.406 1.00 28.69 ATOM 2656 CG CG LYAL B 418 39.598 4.2113 1.406 1.00 28.69 ATOM 2656 CG CG LYAL B 418 39.598 4.212 13.406 1.00 28.58 ATOM 2657 N GLU B 419 41.604 2.736 17.304 1.00 31.89 ATOM 2658 C C LYAL B 418 39.598 4.212 13.406 1.00 28.58 ATOM 2657 N GLU B 419 41.604 2.736 17.304 1.00 31.89 ATOM 2658 C CG LU B 419 44.661 3.3190 17.969 1.00 33.35 ATOM 2656 CG LU B 419 44.661 3.3190 17.969 1.00 28.05 ATOM 2656 CG LU B 419 44.661 3.3190 17.969 1.00 28.05 ATOM 2666 N GLU B 419 44.503 4.850 19.758 1.00 28.05 ATOM 2667 C C LU B 419 44.503 4.850 19.758 1.00 28.05 ATOM 2667 C C LU B 419 44.503 4.850 19.758 1.00 28.05 ATOM 2668 C C LU B 422 33.300 -0.064 17.501 1.00 28.85 ATOM 2668 C C LU B 422 33.30	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2612 2613 2614 2615 2616 2617 2618 2620 2621 2622 2623 2624 2625 2627 2627 2628 2629 2631 2632	NH2 N CA C O CB CG	ASP B ASP B ASP B ASP B ASP B ASP B GLU B	412 413 413 413 413 413 414 414 414 414 414	31.941 32.507 32.629 33.995 35.067 36.216 34.161 33.5368 33.192 34.720 35.764 36.070 37.039 35.471 35.025 34.667 33.472 35.355 34.5637 35.355 35.596	-5.791 -6.553 -4.265 -4.708 -3.763 -3.738 -6.089 -7.189 -7.1812 -0.879 -0.107 -1.117 -1.983 -1.067 -0.896 -0.530 -0.973 -0.212	16.516 14.425 10.155 10.311 9.852 10.383 9.610 10.460 11.691 9.876 8.992 8.612 9.769 9.723 7.306 6.129 4.959 4.675 4.369 10.889 12.090	1.00 47.65 1.00 48.50 1.00 34.38 1.00 37.43 1.00 35.77 1.00 34.32 1.00 40.66 1.00 48.67 1.00 51.36 1.00 35.67 1.00 35.67 1.00 35.84 1.00 35.06 1.00 35.23 1.00 36.28 1.00 36.28 1.00 42.35 1.00 42.19
ATOM 2637 C LYS B 416 39.867 -1.387 12.507 1.00 39.37 ATOM 2639 CB LYS B 416 40.933 -1.353 13.131 1.00 45.05 ATOM 2640 CG LYS B 416 38.996 -3.731 12.591 1.00 45.05 ATOM 2641 CD LYS B 416 38.091 -4.656 13.388 1.00 46.63 ATOM 2642 CE LYS B 416 37.255 -7.010 13.607 1.00 50.30 ATOM 2642 CE LYS B 416 37.618 -6.901 15.056 1.00 57.31 ATOM 2643 NZ LYS B 416 37.618 -6.901 15.056 1.00 57.31 ATOM 2644 N CYS B 417 39.673 -0.609 11.441 1.00 42.91 ATOM 2645 CA CYS B 417 41.041 1.434 11.844 1.00 38.44 ATOM 2646 C CYS B 417 41.041 1.434 11.844 1.00 38.44 ATOM 2648 CB CYS B 417 40.649 1.931 11.609 1.00 36.80 ATOM 2640 N VAL B 418 40.239 1.960 12.775 1.00 29.866 ATOM 2651 CA VAL B 418 40.239 1.960 12.775 1.00 28.666 ATOM 2651 CA VAL B 418 40.658 2.691 15.095 1.00 23.05 ATOM 2655 CG1 VAL B 418 39.598 4.212 13.406 1.00 28.58 ATOM 2655 CG2 VAL B 418 39.598 4.212 13.406 1.00 28.69 ATOM 2656 CG2 VAL B 418 39.598 4.212 13.406 1.00 28.69 ATOM 2656 CG2 VAL B 418 39.598 4.212 13.406 1.00 28.69 ATOM 2656 CG2 VAL B 418 39.598 4.212 13.406 1.00 28.69 ATOM 2656 CG2 VAL B 418 39.598 4.212 13.406 1.00 28.69 ATOM 2656 CG2 VAL B 418 39.598 4.212 13.406 1.00 28.69 ATOM 2656 CG2 VAL B 418 39.633 -0.209 8.291 1.00 24.25 ATOM 2656 CG2 VAL B 418 39.598 4.212 13.406 1.00 28.69 ATOM 2656 CG2 VAL B 418 39.598 4.212 13.406 1.00 28.69 ATOM 2656 CG2 VAL B 418 39.598 4.212 13.406 1.00 28.59 ATOM 2656 CG2 VAL B 418 39.598 4.212 13.406 1.00 28.69 ATOM 2656 CG2 VAL B 418 39.598 4.212 13.406 1.00 24.25 ATOM 2656 CG2 VAL B 418 39.598 4.212 13.406 1.00 24.25 ATOM 2657 CG GLU B 419 41.631 3.069 15.872 1.00 28.15 ATOM 2657 CG GLU B 419 41.631 3.069 15.872 1.00 28.15 ATOM 2658 CA GLU B 419 41.631 3.069 15.872 1.00 28.93 ATOM 2657 CG GLU B 419 41.631 3.069 15.872 1.00 28.93 ATOM 2658 CA GLU B 419 41.631 3.069 15.872 1.00 28.93 ATOM 2660 CG GLU B 419 41.631 3.069 17.999 1.00 33.35 ATOM 2667 CA GLU B 419 44.530 4.850 19.758 1.00 29.93 ATOM 2667 CA GLU B 419 44.530 4.850 19.758 1.00 29.93 ATOM 2667 CA GLU B 419 44.530 4.850 19.758 1.00 29.93 ATOM 2667 CA GLU B 422 33.53			0	GLY B	415		-0.655 0.065	12.772 13.534	1.00 39.93 1.00 36.09
ATOM 2639 CB LYS B 416									
ATOM 2640 CG LYS B 416 38.051 -4.656 13.358 1.00 46.63 ATOM 2641 CD LYS B 416 37.255 -7.010 13.607 1.00 50.30 ATOM 2642 CE LYS B 416 37.255 -7.010 13.607 1.00 55.85 ATOM 2643 NZ LYS B 416 37.255 -7.010 13.607 1.00 55.85 ATOM 2644 N CYS B 417 39.673 -0.609 11.441 1.00 42.91 ATOM 2645 CA CYS B 417 40.649 0.299 10.915 1.00 38.34 ATOM 2647 O CYS B 417 40.649 0.299 10.915 1.00 38.44 ATOM 2647 O CYS B 417 42.143 1.931 11.609 1.00 36.80 ATOM 2648 CB CYS B 417 42.143 1.931 11.609 1.00 36.80 ATOM 2649 SG CYS B 417 42.143 1.931 11.609 1.00 36.80 ATOM 2649 SG CYS B 417 42.143 1.931 11.609 1.00 36.80 ATOM 2650 N VAL B 418 40.675 0.938 9.589 1.00 44.73 ATOM 2651 CA VAL B 418 40.657 3.094 13.606 1.00 25.58 ATOM 2652 C VAL B 418 40.658 2.691 15.095 1.00 23.05 ATOM 2655 CG VAL B 418 39.612 2.113 15.416 1.00 27.29 ATOM 2655 CG VAL B 418 39.612 2.113 15.416 1.00 27.29 ATOM 2655 CG VAL B 418 39.698 4.212 13.406 1.00 26.69 ATOM 2655 CG VAL B 418 39.698 4.212 13.406 1.00 27.29 ATOM 2655 CG VAL B 418 39.698 4.212 13.406 1.00 27.29 ATOM 2655 CG VAL B 418 39.698 4.212 13.406 1.00 28.69 ATOM 2656 CG2 VAL B 418 39.698 4.212 13.406 1.00 28.09 ATOM 2656 CG2 VAL B 418 39.698 4.212 13.406 1.00 28.09 ATOM 2656 CG2 VAL B 418 39.698 4.212 13.406 1.00 28.15 ATOM 2657 N GLU B 419 41.631 3.069 15.872 1.00 24.25 ATOM 2657 N GLU B 419 41.631 3.069 15.872 1.00 28.15 ATOM 2656 CG2 VAL B 418 39.950 4.368 17.897 1.00 28.15 ATOM 2660 O GLU B 419 40.694 3.295 17.996 1.00 33.35 ATOM 2661 CB GLU B 419 44.661 3.211 21.160 1.00 28.13 ATOM 2660 O GLU B 419 44.661 3.211 21.160 1.00 28.30 ATOM 2660 O GLU B 419 44.500 4.850 17.996 1.00 33.35 ATOM 2661 CB GLU B 419 44.500 38.334 2.499 19.315 1.00 24.25 ATOM 2667 CA GLU B 419 44.500 38.334 2.499 19.315 1.00 24.25 ATOM 2667 CA GLU B 419 44.500 38.334 2.499 19.315 1.00 28.93 ATOM 2667 CA GLU B 420 39.552 2.281 18.583 1.00 29.93 ATOM 2667 CA GLU B 420 37.061 2.865 18.598 1.00 23.37 ATOM 2668 C GLU B 420 37.061 2.865 18.598 1.00 23.37 ATOM 2668 C GLU B 422 33.539 5.504 17.716 1.00 28.94 ATOM 2679 C C LEU B 422 33.530		2638	0	LYS B	416				
ATOM 2641 CD LYS B 416 38.112 -6.062 12.770 1.00 50.30 ATOM 2642 CE LYS B 416 37.618 -6.901 15.056 1.00 57.31 ATOM 2644 N CYS B 417 39.673 -0.609 11.441 1.00 42.91 ATOM 2644 CC CYS B 417 39.673 -0.609 10.915 1.00 38.32 ATOM 2645 CA CYS B 417 41.041 1.434 11.844 1.00 38.44 ATOM 2646 C CYS B 417 42.143 1.931 11.609 1.00 36.80 ATOM 2648 CB CYS B 417 42.143 1.931 11.609 1.00 36.80 ATOM 2648 CB CYS B 417 42.143 1.931 11.609 1.00 36.80 ATOM 2649 SG CYS B 417 39.633 -0.209 8.291 1.00 44.73 ATOM 2649 SG CYS B 417 40.649 0.299 18.291 1.00 44.73 ATOM 2651 CA VAL B 418 40.670 3.094 13.606 1.00 25.58 ATOM 2651 CA VAL B 418 40.670 3.094 13.606 1.00 25.58 ATOM 2653 O VAL B 418 39.612 2.113 15.416 1.00 27.29 ATOM 2655 CG1 VAL B 418 39.612 2.113 15.416 1.00 27.29 ATOM 2655 CG2 VAL B 418 39.612 2.113 15.416 1.00 27.29 ATOM 2655 CG2 VAL B 418 39.626 4.666 1.1935 1.00 29.09 ATOM 2655 CG1 VAL B 418 39.626 4.666 1.1935 1.00 29.09 ATOM 2655 CG1 VAL B 418 39.626 4.666 1.1935 1.00 29.09 ATOM 2656 CG2 VAL B 418 39.626 4.666 1.1935 1.00 29.09 ATOM 2656 CG2 VAL B 419 41.631 3.069 15.872 1.00 28.55 ATOM 2656 CG2 VAL B 419 41.631 3.069 15.872 1.00 28.15 ATOM 2657 N GLU B 419 41.631 3.069 15.872 1.00 28.15 ATOM 2656 CG2 VAL B 419 41.604 2.736 17.304 1.00 31.89 ATOM 2656 CG2 CG GLU B 419 41.604 2.736 17.304 1.00 31.89 ATOM 2660 N GLU B 419 44.651 3.19 17.969 1.00 33.35 ATOM 2660 N GLU B 419 44.651 3.19 17.969 1.00 33.35 ATOM 2661 CB GLU B 419 44.530 4.850 19.758 1.00 29.09 ATOM 2667 CA GLU B 419 44.530 4.850 19.758 1.00 37.11 ATOM 2667 CA GLU B 419 44.530 4.850 19.758 1.00 37.11 ATOM 2667 CA GLU B 419 44.530 4.850 19.758 1.00 37.11 ATOM 2667 CA GLU B 419 44.530 4.850 19.758 1.00 37.11 ATOM 2667 CA GLU B 419 44.530 4.850 19.758 1.00 33.37 ATOM 2667 CA GLU B 419 44.530 4.850 19.758 1.00 33.37 ATOM 2667 CA GLU B 420 38.334 2.499 19.315 1.00 29.99 ATOM 2667 CA GLU B 420 38.334 2.499 19.315 1.00 29.29 ATOM 2667 CA GLU B 421 33.631 2.452 1.60 1.00 26.54 ATOM 2670 CA GLU B 421 33.639 1.00 30.64 ATOM 2671 CA GLU B 422 33.300 -0.004 17.501 1.00 28.98									
ATOM 2644 N CYS B 417	MOTA	2641	CD	LYS B	416	38.112	-6.062	12.770	1.00 50.30
ATOM 2644 N CYS B 417									
ATOM 2646 C CYS B 417			N	CYS B	417	39.673	-0.609	11.441	1.00 42.91
ATOM 2648 CB CYS B 417									
ATOM 2649 SG CYS B 417 39.633 -0.209 8.291 1.00 49.95 ATOM 2650 N VAL B 418 40.239 1.960 12.775 1.00 28.66 ATOM 2651 CA VAL B 418 40.670 3.094 13.606 1.00 25.58 ATOM 2652 C VAL B 418 39.612 2.113 15.095 1.00 23.05 ATOM 2653 O VAL B 418 39.612 2.113 15.416 1.00 27.29 ATOM 2654 CB VAL B 418 39.598 4.212 13.406 1.00 28.69 ATOM 2655 CG1 VAL B 418 39.790 5.412 14.295 1.00 29.09 ATOM 2655 CG2 VAL B 418 39.790 5.412 14.295 1.00 29.09 ATOM 2656 CG2 VAL B 418 39.790 5.412 14.295 1.00 24.25 ATOM 2655 CG2 VAL B 418 39.790 5.412 14.295 1.00 24.25 ATOM 2656 CG VAL B 418 39.790 5.412 14.295 1.00 24.25 ATOM 2656 CG VAL B 419 41.631 3.069 15.872 1.00 28.15 ATOM 2658 CA GLU B 419 41.604 2.736 17.304 1.00 31.89 ATOM 2660 O GLU B 419 40.285 3.190 17.969 1.00 33.35 ATOM 2661 CB GLU B 419 42.779 3.421 17.983 1.00 37.11 ATOM 2663 CG GLU B 419 43.069 2.956 19.406 1.00 40.40 ATOM 2663 CD GLU B 419 44.530 4.850 19.758 1.00 49.85 ATOM 2664 OE1 GLU B 419 44.530 4.850 19.758 1.00 53.97 ATOM 2666 NG LY B 420 39.552 2.281 18.583 1.00 29.93 ATOM 2666 NG LY B 420 38.534 4.850 19.758 1.00 35.47 ATOM 2668 C GLY B 420 38.534 2.499 19.315 1.00 35.47 ATOM 2667 CA GLY B 420 37.061 2.865 18.598 1.00 33.37 ATOM 2667 CA GLY B 420 37.061 2.865 18.598 1.00 33.37 ATOM 2667 CA GLY B 420 37.061 2.865 18.598 1.00 33.37 ATOM 2667 CA GLY B 420 37.061 2.865 18.598 1.00 33.37 ATOM 2667 CA GLY B 420 37.061 2.865 18.598 1.00 33.37 ATOM 2667 CG LLE B 421 35.871 3.377 16.566 1.00 27.21 ATOM 2677 CD ILE B 421 35.871 3.377 16.566 1.00 27.21 ATOM 2677 CD ILE B 421 35.666 5.887 13.638 1.00 29.99 ATOM 2677 CD ILE B 421 35.566 5.887 13.638 1.00 29.99 ATOM 2678 N LEE B 421 35.566 5.887 13.638 1.00 29.99 ATOM 2679 CA LEU B 422 35.319 1.00 31.636 1.00 28.24 ATOM 2679 CA LEU B 422 35.319 1.00 31.656 1.00 28.24 ATOM 2678 N LEU B 422 35.519 1.00 15.665 1.00 27.21 ATOM 2679 CA LEU B 422 35.363 -3.917 16.561 1.00 28.98 ATOM 2685 CD2 LEU B 422 35.253 -1.426 16.541 1.00 38.78 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00						42.143	1.931	11.609	1.00 36.80
ATOM 2651 CA VAL B 418	MOTA	2649							
ATOM 2652 C VAL B 418									
ATOM 2654 CB VAL B 418 39.598 4.212 13.406 1.00 28.69 ATOM 2655 CG1 VAL B 418 39.790 5.412 14.295 1.00 29.09 ATOM 2656 CG2 VAL B 418 39.626 4.666 11.935 1.00 24.25 ATOM 2657 N GLU B 419 41.631 3.069 15.872 1.00 28.15 ATOM 2658 CA GLU B 419 41.631 3.069 15.872 1.00 28.15 ATOM 2658 CA GLU B 419 41.631 3.069 15.872 1.00 28.15 ATOM 2658 CA GLU B 419 40.285 3.190 17.969 1.00 33.35 ATOM 2660 O GLU B 419 40.285 3.190 17.969 1.00 33.35 ATOM 2661 CB GLU B 419 42.779 3.421 17.983 1.00 37.11 ATOM 2662 CG GLU B 419 42.779 3.421 17.983 1.00 37.11 ATOM 2663 CD GLU B 419 44.152 3.719 20.136 1.00 49.85 ATOM 2664 OE1 GLU B 419 44.530 4.850 19.758 1.00 53.97 ATOM 2666 N GLY B 420 39.552 2.281 18.583 1.00 29.93 ATOM 2666 N GLY B 420 39.552 2.281 18.583 1.00 29.93 ATOM 2666 N GLY B 420 39.552 2.281 18.583 1.00 29.93 ATOM 2666 C GLY B 420 37.061 2.865 18.598 1.00 33.37 ATOM 2667 CA GLY B 420 37.061 2.865 18.598 1.00 33.37 ATOM 2667 CA GLY B 420 37.061 2.865 18.598 1.00 33.37 ATOM 2667 CA GLY B 420 37.061 2.865 18.598 1.00 33.37 ATOM 2670 N ILE B 421 35.871 3.377 16.566 1.00 27.21 ATOM 2672 C ILE B 421 35.871 3.377 16.566 1.00 27.21 ATOM 2672 C ILE B 421 35.871 3.377 16.566 1.00 27.21 ATOM 2675 CG1 ILE B 421 35.871 3.377 16.566 1.00 27.21 ATOM 2677 CD ILE B 421 35.566 5.887 13.638 1.00 29.99 ATOM 2677 CD ILE B 421 35.169 5.104 14.907 1.00 22.99 ATOM 2678 N LEU B 422 33.5319 1.030 16.567 1.00 30.64 ATOM 2679 CA LEU B 422 33.5319 1.030 16.567 1.00 30.64 ATOM 2678 N LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2682 CB LEU B 422 33.300 -0.064 17.501 1.00 38.34 ATOM 2688 CB LEU B 422 33.536 -3.917 16.121 1.00 38.37 ATOM 2688 CB LEU B 422 33.536 -3.917 16.121 1.00 38.34 ATOM 2685 CD2 LEU B 422 33.538 0.370 18.702 1.00 38.87 ATOM 2685 CD2 LEU B 422 34.231 -2.456 14.475 1.00 36.28 ATOM 2685 CD2 LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2688 CD2 LEU B 422 34.231 -2.456 14.475 1.00 38.37 ATOM 2685 CD2 LEU B 422 34.231 -2.456 14.4									
ATOM 2655 CG1 VAL B 418									
ATOM 2657 N GLU B 419 41.631 3.069 15.872 1.00 28.15 ATOM 2658 CA GLU B 419 41.604 2.736 17.304 1.00 31.89 ATOM 2659 C GLU B 419 40.285 3.190 17.969 1.00 33.35 ATOM 2660 O GLU B 419 42.779 3.421 17.983 1.00 28.30 ATOM 2661 CB GLU B 419 42.779 3.421 17.983 1.00 37.11 ATOM 2662 CG GLU B 419 43.069 2.956 19.406 1.00 40.40 ATOM 2663 CD GLU B 419 44.152 3.719 20.136 1.00 49.85 ATOM 2664 OE1 GLU B 419 44.530 4.850 19.758 1.00 53.97 ATOM 2665 OE2 GLU B 419 44.530 4.850 19.758 1.00 53.97 ATOM 2665 OE2 GLU B 419 44.661 3.211 21.160 1.00 52.13 ATOM 2665 OE2 GLU B 419 44.661 3.211 21.160 1.00 52.13 ATOM 2666 N GLY B 420 38.334 2.499 19.315 1.00 35.47 ATOM 2666 C GLY B 420 38.334 2.499 19.315 1.00 35.47 ATOM 2666 C GLY B 420 37.061 2.865 18.598 1.00 29.93 ATOM 2660 O GLY B 420 37.061 2.865 18.598 1.00 27.21 ATOM 2667 CA ILE B 421 37.097 2.945 17.248 1.00 27.21 ATOM 2671 CA ILE B 421 35.871 3.377 16.566 1.00 27.21 ATOM 2672 C ILE B 421 33.631 2.452 16.301 1.00 28.34 ATOM 2673 O ILE B 421 33.631 2.452 16.301 1.00 28.34 ATOM 2674 CB ILE B 421 33.631 2.452 16.301 1.00 28.34 ATOM 2675 CG1 ILE B 421 35.169 5.104 14.907 1.00 22.99 ATOM 2677 CD1 ILE B 421 35.566 5.887 13.638 1.00 20.02 ATOM 2678 N LEU B 422 33.300 -0.064 14.124 1.00 28.98 ATOM 2679 CA LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2678 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2680 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 34.437 -0.125 16.473 1.00 38.34 ATOM 2682 CB LEU B 422 33.538 -1.426 16.473 1.00 38.34 ATOM 2686 CD2 LEU B 422 33.300 -0.064 17.501 1.00 32.02 ATOM 2688 CD2 LEU B 422 33.300 -0.064 17.501 1.00 38.34 ATOM 2686 CD2 LEU B 422 33.300 -0.064 17.501 1.00 38.34 ATOM 2686 CD2 LEU B 422 33.330 -0.0549 17.176 1.00 38.34 ATOM 2688 CD2 LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2687 CA GLU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2688 CD2 LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2688 CD2 LEU B 422 33.3538 0.370 1.00 28.85 ATOM 2687 CA GLU B 423 33.538 0.370 1.65	ATOM	2655	CG1	VAL B	418	39.790	5.412	14.295	1.00 29.09
ATOM 2658 CA GLU B 419									
ATOM 2660 O GLU B 419	ATOM	2658	CA	GLU · B	419	41.604	2.736	17.304	1.00 31.89
ATOM 2661 CB GLU B 419									
ATOM 2663 CD GLU B 419	MOTA	2661	CB	GLU B	419	42.779	3.421	17.983	1.00 37.11
ATOM 2664 OE1 GLU B 419									
ATOM 2666 N GLY B 420 39.552 2.281 18.583 1.00 29.93 ATOM 2667 CA GLY B 420 38.334 2.499 19.315 1.00 35.47 ATOM 2668 C GLY B 420 37.061 2.865 18.598 1.00 33.37 ATOM 2669 O GLY B 420 35.982 3.059 19.214 1.00 28.93 ATOM 2670 N ILE B 421 37.097 2.945 17.248 1.00 27.21 ATOM 2671 CA ILE B 421 35.871 3.377 16.566 1.00 27.21 ATOM 2672 C ILE B 421 34.832 2.295 16.473 1.00 28.34 ATOM 2673 O ILE B 421 33.631 2.452 16.301 1.00 26.36 ATOM 2674 CB ILE B 421 36.197 3.956 15.177 1.00 26.54 ATOM 2675 CG1 ILE B 421 35.169 5.104 14.907 1.00 22.999 ATOM 2676 CG2 ILE B 421 36.146 2.861 14.124 1.00 28.24 ATOM 2677 CD1 ILE B 421 35.566 5.887 13.638 1.00 20.02 ATOM 2678 N LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2679 CA LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2680 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 32.160 -0.392 17.176 1.00 32.01 ATOM 2682 CB LEU B 422 32.160 -0.392 17.176 1.00 32.01 ATOM 2684 CD1 LEU B 422 34.221 -2.456 14.475 1.00 38.34 ATOM 2684 CD1 LEU B 422 34.221 -2.456 14.475 1.00 38.34 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 32.02							4.850	19.758	
ATOM 2667 CA GLY B 420 38.334 2.499 19.315 1.00 35.47 ATOM 2668 C GLY B 420 37.061 2.865 18.598 1.00 33.37 ATOM 2669 O GLY B 420 35.982 3.059 19.214 1.00 28.93 ATOM 2670 N ILE B 421 37.097 2.945 17.248 1.00 27.21 ATOM 2671 CA ILE B 421 35.871 3.377 16.566 1.00 27.21 ATOM 2672 C ILE B 421 34.832 2.295 16.473 1.00 28.34 ATOM 2673 O ILE B 421 33.631 2.452 16.301 1.00 26.36 ATOM 2674 CB ILE B 421 36.197 3.956 15.177 1.00 26.54 ATOM 2675 CG1 ILE B 421 35.169 5.104 14.907 1.00 22.99 ATOM 2676 CG2 ILE B 421 36.146 2.861 14.124 1.00 28.24 ATOM 2677 CD1 ILE B 421 35.566 5.887 13.638 1.00 20.02 ATOM 2678 N LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2679 CA LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2680 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 32.160 -0.392 17.176 1.00 32.01 ATOM 2682 CB LEU B 422 35.253 -1.426 16.541 1.00 33.58 ATOM 2684 CD1 LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2685 CD2 LEU B 422 35.338 0.370 18.702 1.00 38.73 ATOM 2687 CA GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 38.73 ATOM 2687 CA GLU B 423 33.538 0.370 18.702 1.00 32.02									
ATOM 2669 O GLY B 420 35.982 3.059 19.214 1.00 28.93 ATOM 2670 N ILE B 421 37.097 2.945 17.248 1.00 27.21 ATOM 2671 CA ILE B 421 35.871 3.377 16.566 1.00 27.21 ATOM 2672 C ILE B 421 34.832 2.295 16.473 1.00 28.34 ATOM 2673 O ILE B 421 33.631 2.452 16.301 1.00 26.36 ATOM 2674 CB ILE B 421 36.197 3.956 15.177 1.00 26.54 ATOM 2675 CG1 ILE B 421 35.169 5.104 14.907 1.00 22.99 ATOM 2676 CG2 ILE B 421 36.146 2.861 14.124 1.00 28.24 ATOM 2677 CD1 ILE B 421 35.566 5.887 13.638 1.00 20.02 ATOM 2678 N LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2679 CA LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2680 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 32.160 -0.392 17.176 1.00 32.01 ATOM 2682 CB LEU B 422 34.523 -1.426 16.541 1.00 33.58 ATOM 2683 CG LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 33.538 0.370 18.702 1.00 28.85									
ATOM 2671 CA ILE B 421 35.871 3.377 16.566 1.00 27.21 ATOM 2672 C ILE B 421 34.832 2.295 16.473 1.00 28.34 ATOM 2673 O ILE B 421 33.631 2.452 16.301 1.00 26.36 ATOM 2674 CB ILE B 421 36.197 3.956 15.177 1.00 26.54 ATOM 2675 CG1 ILE B 421 35.169 5.104 14.907 1.00 22.99 ATOM 2676 CG2 ILE B 421 36.146 2.861 14.124 1.00 28.24 ATOM 2677 CD1 ILE B 421 35.566 5.887 13.638 1.00 20.02 ATOM 2678 N LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2679 CA LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2680 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 32.160 -0.392 17.176 1.00 32.01 ATOM 2682 CB LEU B 422 34.523 -1.426 16.541 1.00 33.58 ATOM 2683 CG LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 33.538 0.370 18.702 1.00 32.02	ATOM	2669	0	GLY B	420	35.982	3.059	19.214	1.00 28.93
ATOM 2672 C ILE B 421 34.832 2.295 16.473 1.00 28.34 ATOM 2673 O ILE B 421 33.631 2.452 16.301 1.00 26.36 ATOM 2674 CB ILE B 421 36.197 3.956 15.177 1.00 26.54 ATOM 2675 CG1 ILE B 421 35.169 5.104 14.907 1.00 22.99 ATOM 2676 CG2 ILE B 421 35.169 5.104 14.907 1.00 22.99 ATOM 2677 CD1 ILE B 421 35.566 5.887 13.638 1.00 20.02 ATOM 2678 N LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2679 CA LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2680 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2682 CB LEU B 422 32.160 -0.392 17.176 1.00 32.01 ATOM 2683 CG LEU B 422 34.523 -1.426 16.541 1.00 33.58 ATOM 2684 CD1 LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 32.522 0.549 19.732 1.00 32.02									
ATOM 2674 CB ILE B 421 36.197 3.956 15.177 1.00 26.54 ATOM 2675 CG1 ILE B 421 35.169 5.104 14.907 1.00 22.99 ATOM 2676 CG2 ILE B 421 36.146 2.861 14.124 1.00 28.24 ATOM 2677 CD1 ILE B 421 35.566 5.887 13.638 1.00 20.02 ATOM 2678 N LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2679 CA LEU B 422 34.437 -0.125 16.473 1.00 26.65 ATOM 2680 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 32.160 -0.392 17.176 1.00 32.01 ATOM 2682 CB LEU B 422 35.253 -1.426 16.541 1.00 33.58 ATOM 2683 CG LEU B 422 34.221 -2.456 14.475 1.00 38.34 ATOM 2684 CD1 LEU B 422 34.221 -2.456 14.475 1.00 36.28 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2687 CA GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 33.538 0.370 18.702 1.00 32.02	ATOM	2672	С	ILE B	421	34.832	2.295	16.473	1.00 28.34
ATOM 2675 CG1 ILE B 421 35.169 5.104 14.907 1.00 22.99 ATOM 2676 CG2 ILE B 421 36.146 2.861 14.124 1.00 28.24 ATOM 2677 CD1 ILE B 421 35.566 5.887 13.638 1.00 20.02 ATOM 2678 N LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2679 CA LEU B 422 34.437 -0.125 16.473 1.00 26.65 ATOM 2680 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 32.160 -0.392 17.176 1.00 32.01 ATOM 2682 CB LEU B 422 35.253 -1.426 16.541 1.00 33.58 ATOM 2683 CG LEU B 422 34.221 -2.456 14.475 1.00 36.28 ATOM 2684 CD1 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 32.522 0.549 19.732 1.00 32.02						33.631 36.197			
ATOM 2677 CD1 ILE B 421 35.566 5.887 13.638 1.00 20.02 ATOM 2678 N LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2679 CA LEU B 422 34.437 -0.125 16.473 1.00 26.65 ATOM 2680 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 32.160 -0.392 17.176 1.00 32.01 ATOM 2682 CB LEU B 422 35.253 -1.426 16.541 1.00 33.58 ATOM 2683 CG LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2684 CD1 LEU B 422 34.523 -2.456 14.475 1.00 36.28 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 32.522 0.549 19.732 1.00 32.02	ATOM	2675	CG1	ILE B	421	35.169	5.104	14.907	1.00 22.99
ATOM 2678 N LEU B 422 35.319 1.030 16.567 1.00 30.64 ATOM 2679 CA LEU B 422 34.437 -0.125 16.473 1.00 26.65 ATOM 2680 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 32.160 -0.392 17.176 1.00 32.01 ATOM 2682 CB LEU B 422 35.253 -1.426 16.541 1.00 33.58 ATOM 2683 CG LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2684 CD1 LEU B 422 34.523 -2.456 14.475 1.00 36.28 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 32.522 0.549 19.732 1.00 32.02									
ATOM 2680 C LEU B 422 33.300 -0.064 17.501 1.00 28.98 ATOM 2681 O LEU B 422 32.160 -0.392 17.176 1.00 32.01 ATOM 2682 CB LEU B 422 35.253 -1.426 16.541 1.00 33.58 ATOM 2683 CG LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2684 CD1 LEU B 422 34.221 -2.456 14.475 1.00 36.28 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 32.522 0.549 19.732 1.00 32.02	ATOM	2678	N	LEU B	422	35.319	1.030	16.567	1.00 30.64
ATOM 2682 CB LEU B 422 35.253 -1.426 16.541 1.00 33.58 ATOM 2683 CG LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2684 CD1 LEU B 422 34.221 -2.456 14.475 1.00 36.28 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 32.522 0.549 19.732 1.00 32.02	MOTA	2680		LEU B	422	33.300	-0.064	17.501	1.00 28.98
ATOM 2683 CG LEU B 422 34.523 -2.640 15.946 1.00 38.34 ATOM 2684 CD1 LEU B 422 34.221 -2.456 14.475 1.00 36.28 ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 32.522 0.549 19.732 1.00 32.02									
ATOM 2685 CD2 LEU B 422 35.363 -3.917 16.121 1.00 38.73 ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 32.522 0.549 19.732 1.00 32.02	MOTA	2683	CG	LEU B	422	34.523	-2.640	15.946	1.00 38.34
ATOM 2686 N GLU B 423 33.538 0.370 18.702 1.00 28.85 ATOM 2687 CA GLU B 423 32.522 0.549 19.732 1.00 32.02									
	MOTA	2686	N	GLU B	423	33.538	0.370	18.702	1.00 28.85

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2689 2690 2691 2693 2694 2695 2696 2697 2698 2700 2701 2702 2703 2704 2705 2707 2708	CB GI CG GI OE1 GI OE2 GI CA II CA II CB II CG1 II CG2 II CG2 II CD1 II N PH CA PH C PH CB PH CB PH	U B 423 U B 8 423 U U B 8 423 U U B 8 424 U B 8 424 E B B 424 E E B B 424 E E B B 422 E E E E B B 422	33.167 32.212 32.890 33.922 32.376 31.944 30.998 30.143 28.900 31.725 32.722 30.778 32.350 30.766 29.957 28.914 27.790 30.826	1.306 1.072 1.673 1.780 2.477 1.149 2.676 3.704 3.176 4.968 5.559 6.086 5.412 2.416 1.847 0.868 0.763 1.975 1.932	19.357 21.005 22.018 23.375 23.432 24.324 18.640 18.153 17.042 17.017 17.692 18.712 17.268 20.158 16.063 14.997 15.521 15.034 13.983 13.044	1.00 29.37 1.00 37.08 1.00 50.36 1.00 59.51 1.00 60.42 1.00 63.97 1.00 27.62 1.00 26.62 1.00 25.97 1.00 23.96 1.00 26.20 1.00 31.88 1.00 27.72 1.00 34.17 1.00 25.62 1.00 25.62 1.00 26.08 1.00 26.92 1.00 26.92 1.00 26.92 1.00 27.06
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720	CD1 PH CD2 PH CE1 PH CE2 PH CZ PH N AS CA AS C AS C AS CB AS CG AS	E B 425 E B 425 E E B 425 P P B 426 P P B 426 P P B 426 P P B 426	31.806 32.263 32.558 33.036 33.183 29.320 28.333 27.169 26.058 29.012 29.802	3.294 1.340 4.078 2.130 3.479 0.056 -0.901 -0.187 -0.669 -1.873 -2.966 -3.324	13.258 11.972 12.405 11.108 11.331 16.542 17.050 17.746 17.623 18.040 17.334 16.188	1.00 25.62 1.00 28.77 1.00 27.33 1.00 32.05 1.00 29.20 1.00 25.65 1.00 27.00 1.00 27.33 1.00 26.00 1.00 28.08 1.00 32.25 1.00 38.16
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731	OD2 AS N ME CA ME C ME C ME CB ME CG ME CG ME CH CH CL CA LE	P B 426 T B 427 U B 428	30.761 27.404 26.269 25.357 24.142 26.681 27.634 28.151 29.288 26.004 25.254	-3.474 0.925 1.631 2.226 2.282 2.796 2.578 4.195 3.514 2.737 3.340	17.971 18.430 19.062 17.979 18.161 19.918 21.042 21.708 22.936 16.913 15.816	1.00 35.77 1.00 28.31 1.00 28.00 1.00 25.62 1.00 25.62 1.00 29.81 1.00 37.26 1.00 34.12 1.00 43.31 1.00 22.88 1.00 23.53
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743	CB LE CG LE CD1 LE CD2 LE CA LE CA LE C LE C LE CB LE CG LE	U B 428 U B 429	24.379 23.174 26.225 26.870 28.092 25.857 24.942 24.136 23.025 21.920 25.060 25.945	2.312 2.458 4.054 5.340 5.656 6.485 1.116 0.050 -0.498 -0.832 -1.141 -0.808	15.135 14.914 14.844 15.366 14.471 15.509 14.863 14.231 15.122 14.676 13.852 12.624	1.00 23.97 1.00 23.39 1.00 19.14 1.00 20.66 1.00 23.34 1.00 19.84 1.00 25.45 1.00 26.68 1.00 24.43 1.00 26.67 1.00 26.02 1.00 29.17
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755	CD2 LE N AL CA AL C AL C AL CB AL N TH CA TH C TH O TH	U B 429 U B 429 A B 430 A B 430 A B 430 A B 431 R B 431 R R B 431 R B 431	27.103 25.074 23.282 22.295 21.126 19.964 22.972 21.416 20.314 19.545 18.306 20.930	-1.786 -0.793 -0.586 -1.104 -0.148 -0.536 -1.390 1.167 2.136 2.182 2.273 3.480	12.580 11.394 16.405 17.364 17.507 17.409 18.715 17.562 17.631 16.320 16.320 18.065	1.00 27.09 1.00 22.87 1.00 26.72 1.00 29.50 1.00 29.75 1.00 23.47 1.00 27.79 1.00 27.79 1.00 27.18 1.00 24.27 1.00 25.05
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2756 2757 2758 2759 2760 2761 2762 2763 2764 2765	OG1 TH CG2 TH N TH CA TH C TH O TH CB TH OG1 TH CG2 TH	R B 431 R B 431 R B 432 R B 432 R B 432 R B 432 R B 432 R B 432 R B 433	21.794 19.789 20.253 19.608 18.652 17.530 20.600 21.520 19.956 19.157	3.282 4.449 2.060 2.011 0.807 0.895 1.774 2.903 1.648 -0.324	19.200 18.369 15.176 13.880 13.882 13.396 12.727 12.755 11.351 14.394	1.00 29.32 1.00 29.50 1.00 24.95 1.00 25.81 1.00 27.63 1.00 25.14 1.00 26.18 1.00 23.04 1.00 26.93 1.00 29.09

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	22222222222222222222222222222222222222	CD2 CE1 CC2 NACCOCCONEZ NH12 NACCOCCOCCONACCOCCCOCC NACCOCCCOCCCOCCCOCCCCCCCCCC	ARG B B B B B B B B B B B B B B B B B B B	44444444444444444444444444444444444444	18.900 17.8853648 10.08519 13.86268 14.1922619 13.60468 14.1922619 13.60468 14.1922619 14.86968 15.86968 16.86968	-23.5254907865624863005.571235000.00.00.00.00.00.00.00.00.00.00.00.00	15.12.4 16.34.7 16.36.7 16.37.7 16.	1.00 31.10 1.00 27.47 1.00 29.90 1.00 34.41 1.00 35.25 1.00 32.44 1.00 45.34 1.00 48.77 1.00 56.45 1.00 59.27 1.00 28.71 1.00 28.71 1.00 28.71 1.00 27.67 1.00 27.67 1.00 27.67 1.00 23.09 1.00 24.31 1.00 24.31 1.00 29.19 1.00 30.07 1.00 31.36 1.00 32.14 1.00 33.57 1.00 33.57 1.00 33.57 1.00 33.31 1.00 39.39 1.00 31.36
 ATOM ATOM ATOM ATOM	2824 2825 2826 2827	O CB CG CD	LYS B LYS B LYS B LYS B LYS B	439 439 439 439 439	8.109 8.369 7.060	2.940 0.164 -1.324 -2.021	11.257 11.308 10.989 10.634	1.00 30.79 1.00 36.88 1.00 38.92

ATOM	2843	CG	GLN B 441	6.217	5.554	9.658	1.00 33.92
ATOM	2844	CD	GLN B 441	6.418	4.515	8.568	1.00 42.79
ATOM ATOM	2845 2846	OE1	GLN B 441	5.880 7.165	4.786 3.441	7.490 8.802	1.00 49.00 1.00 47.31
ATOM	2847	N	HIS B 442	9.306	8.219	7.731	1.00 47.31
MOTA	2848	CA	HIS B 442	10.021	9.423	7.313	1.00 29.05
ATOM	2849	C	HIS B 442	9.527	10.660	8.021	1.00 24.51
MOTA MOTA	2850 2851	O CB	HIS B 442 HIS B 442	10.388	11.418	8.526	1.00 25.18
ATOM	2852	CG	HIS B 442	9.996 10.894	9.539 10.622	5.768 5.225	1.00 31.83 1.00 33.00
ATOM	2853		HIS B 442	12.242	10.727	5.455	1.00 34.94
ATOM	2854		HIS B 442	10.581	11.678	4.438	1.00 34.09
ATOM ATOM	2855 2856		HIS B 442	12.715	11.799	4.844	1.00 34.42
ATOM	2857	NE2	LYS B 442	11.725 8.232	12.403 10.903	4.214 8.167	1.00 31.06 1.00 23.03
ATOM	2858	CA	LYS B 443	7.739	12.085	8.832	1.00 23.66
ATOM	2859	С	LYS B 443	8.036	12.057	10.336	1.00 22.88
ATOM ATOM	2860 2861	O CB	LYS B 443 LYS B 443	8.109 6.246	13.134	10.934	1.00 19.97
ATOM	2862	CG	LYS B 443	6.009	12.410 12.667	8.563 7.064	1.00 26.75 1.00 31.03
ATOM	2863	CD	LYS B 443	4.505	12.888	6.794	1.00 33.11
ATOM	2864	CE	LYS B 443	4.304	13.255	5.318	1.00 45.60
ATOM	2865	NZ	LYS B 443	2.834	13.347	4.991	1.00 46.60
ATOM ATOM	2866 2867	N CA	GLU B 444 GLU B 444	8.115 8.434	10.869 10.812	10.920 12.379	1.00 21.21 1.00 18.69
ATOM	2868	C	GLU B 444	9.919	11.207	12.511	1.00 21.45
MOTA	2869	0	GLU B 444	10.279	12.011	13.370	1.00 19.10
ATOM	2870	CB	GLU B 444	8.275	9.389	12.932	1.00 21.53
ATOM ATOM	2871 2872	CG CD	GLU B 444 GLU B 444	6.788 6.612	8.971 7.492	12.978 13.273	1.00 25.64 1.00 24.94
ATOM	2873	OE1		7.483	6.666	12.982	1.00 24.73
ATOM	2874	OE2		5.585	7.165	13.884	1.00 26.20
ATOM	2875	N	TYR B 445	10.776	10.716	11.656	
ATOM ATOM	2876 2877	CA C	TYR B 445 TYR B 445	12.195 12.440	11.016 12.531	11.602 11.488	1.00 23.29 1.00 25.07
ATOM	2878	õ	TYR B 445	13.283	13.083	12.191	1.00 23.07
MOTA	2879	CB	TYR B 445	12.905	10.299	10.462	1.00 23.22
ATOM	2880	CG	TYR B 445	14.154	10.963	9.926	1.00 25.12
MOTA MOTA	2881 2882	CD1 CD2	_	15.329 14.166	10.898 11.619	10.683 8.682	1.00 26.68 1.00 25.12
ATOM	2883	CE1		16.486	11.480	10.236	1.00 25.12
MOTA	2884	CE2		15.346	12.173	8.238	1.00 25.76
ATOM	2885	CZ	TYR B 445	16.471	12.145	9.018	1.00 25.11
MOTA MOTA	2886 2887	OH N	TYR B 445 LEU B 446	17.680 11.689	12.652 13.181	8.602 10.602	1.00 32.57 1.00 22.15
ATOM	2888	CA	LEU B 446	11.848	14.616	10.461	1.00 22.13
ATOM	2889	С	LEU B 446	11.530	15.345	11.760	1.00 19.59
ATOM	2890	0	LEU B 446	12.237	16.275	12.130	1.00 19.63
ATOM ATOM	2891 2892	CB CG	LEU B 446 LEU B 446	10.902 11.156	15.194 14.620	9.383 7.956	1.00 24.06 1.00 25.43
ATOM	2893	CD1		10.056	15.081	6.999	1.00 29.92
MOTA	2894	CD2		12.564	14.978	7.528	1.00 27.33
ATOM	2895	N C2	CYS B 447	10.480	14.946	12.463	1.00 18.44
ATOM ATOM	2896 2897	CA C	CYS B 447 CYS B 447	10.110 11.221	15.624 15.376	13.696 14.748	1.00 16.12 1.00 18.28
ATOM	2898	ō	CYS B 447	11.512	16.262	15.514	1.00 17.67
MOTA	2899	CB	CYS B 447	8.771	15.099	14.240	1.00 17.37
ATOM ATOM	2900 2901	SG N	CYS B 447 VAL B 448	7.391 11.621	15.722 14.089	13.134 14.879	1.00 21.76 1.00 19.27
ATOM	2902	CA	VAL B 448	12.621	13.830	15.948	1.00 19.27
MOTA	2903	С	VAL B 448	13.905	14.585	15.713	1.00 21.13
ATOM	2904	0	VAL B 448	14.520	15.072	16.666	1.00 19.08
ATOM ATOM	2905 2906	CB CG1	VAL B 448 VAL B 448	12.846 13.955	12.292 11.953	15.982 16.955	1.00 25.15 1.00 29.45
ATOM	2907		VAL B 448	11.498	11.659	16.336	1.00 21.83
MOTA	2908	N	LYS B 449	14.355	14.647	14.437	1.00 18.13
ATOM	2909	CA	LYS B 449	15.601	15.404	14.161	1.00 17.61
ATOM ATOM	2910 2911	C O	LYS B 449 LYS B 449	15.428 16.375	16.871 17.491	14.558 15.076	1.00 20.56 1.00 19.67
ATOM	2912	СВ	LYS B 449	16.004	15.195	12.699	1.00 17.60
MOTA	2913	CG	LYS B 449	17.350	15.751	12.324	1.00 20.54
ATOM	2914	CD	LYS B 449	17.812	15.029	11.026	1.00 24.11
ATOM ATOM	2915 2916	CE NZ	LYS B 449 LYS B 449	16.863 17.613	15.527 15.786	9.915 8.664	1.00 23.93 1.00 28.21
ATOM	2917	N	ALA B 450	14.262	17.461	14.244	1.00 16.41
ATOM	2918	CA	ALA B 450	14.037	18.851	14.648	1.00 18.74
MOTA	2919	С	ALA B 450	14.000	18.929	16.174	1.00 18.63

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2920 2921 2922 2923 2924 2925 2926 2927 2928 2929 2930 2931 2932 2933	O CB CG SD CE N CA C O CB	ALA B MET B ILE B ILE B ILE B ILE B ILE B	450 451 451 451 451 451 451 451 451 452 452 452 452	14.510 12.731 13.495 13.502 14.924 15.198 12.672 11.204 10.035 10.922 15.819 17.198 17.806 18.436 17.989	19.892 19.415 17.931 17.947 17.871 18.573 16.774 17.051 15.686 14.995 17.142 17.097 18.479 18.479 18.991	16.771 14.050 16.883 18.329 18.885 19.865 18.498 18.784 20.161 18.234 18.705 18.667 19.621 17.833	1.00 20.03 1.00 17.47 1.00 17.51 1.00 18.37 1.00 17.64 1.00 20.15 1.00 19.94 1.00 27.03 1.00 32.64 1.00 27.86 1.00 17.42 1.00 18.96 1.00 21.80 1.00 23.30 1.00 19.88		0000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2935 2936 2937 2938 2939 2940 2941 2942 2943 2944	CG1 CG2 CD1 N CA C C CB CG CD1	ILE B ILE B LEU B LEU B LEU B LEU B LEU B LEU B	452 452 453 453 453 453 453 453 453	17.450 19.497 18.112 17.579 18.132 17.574 18.276 17.717 18.042 19.517	14.701 16.199 13.672 19.179 20.547 21.466 22.272 21.154 22.652 23.012	18.126 18.120 17.197 17.567 17.476 18.543 19.181 16.125 15.950 15.887	1.00 21.76 1.00 18.62 1.00 22.87 1.00 18.54 1.00 17.52 1.00 22.82 1.00 20.30 1.00 19.07 1.00 18.04 1.00 22.50		00020000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2945 2946 2947 2948 2949 2951 2955 2953 2954 2955	N CA C O CB CG CD1	LEU B ASN B	454 454 454 454 454 454 454 455	17.374 16.234 15.634 15.780 15.595 14.140 13.833 12.347 14.317 16.062 16.081	23.159 21.381 22.323 22.004 22.945 22.453 22.975 22.881 24.430 20.765 20.351	14.663 18.711 19.641 21.104 21.897 19.270 17.887 17.610 17.695 21.445 22.852	1.00 22.28 1.00 17.98 1.00 21.35 1.00 23.61 1.00 25.52 1.00 20.71 1.00 20.30 1.00 21.88 1.00 21.94 1.00 28.13	·	020000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2956 2957 2958 2959 2960 2961 2962 2963 2964 2965	ND2 N CA C	ASN B ASN B ASN B ASN B ASN B SER B SER B SER B SER B	455 455 455 455 456 456 456	17.425 17.491 15.361 15.175 15.470 14.708 18.439 19.638 20.506 21.250	19.900 19.519 18.967 18.151 16.948 18.808 19.912 19.252 20.033 19.391	23.406 24.587 22.776 24.024 24.077 25.080 22.560 23.128 24.059 24.818	1.00 27.63 1.00 38.60 1.00 33.09 1.00 46.53 1.00 40.09 1.00 24.13 1.00 30.74 1.00 31.89 1.00 29.82		0000022000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2966 2967 2968 2969 2971 2972 2973 2974 2975 2976	CB OG N CA C O CB N CA C O	SER B SER B ALA B ALA B ALA B ALA B MET B MET B MET B MET B	456 457 457 457 457 457 458 458	20.343 19.446 20.322 21.221 21.155 20.099 20.928 22.347 22.393 22.393 22.691	18.604 17.466 21.349 22.116 21.687 21.737 23.610 21.591 21.244 22.505 23.569	21.921 21.649 24.098 24.944 26.401 27.028 24.809 27.008 28.430 29.298 28.725	1.00 31.07 1.00 29.71 1.00 27.18 1.00 33.46 1.00 35.06 1.00 34.11 1.00 39.56 1.00 35.72 1.00 29.71 1.00 42.19 1.00 41.34		000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2977 2977 2979 2980 2981 2982 2983 2984 2985 2986	CB CG SD CE N CA C O CB N	MET B MET B MET B ALA B ALA B ALA B ALA B ALA B ALA B	458 458 458 469 469 469 469	23.607 23.552 22.267 22.653 12.103 11.314 11.762 10.971 11.481 13.092	20.386 18.990 17.944 17.715 36.034 36.184 35.123 34.426 37.560 35.091	28.739 28.158 28.833 30.567 25.966 24.740 23.727 23.100 24.148 23.569	1.00 38.90 1.00 35.74 1.00 32.79 1.00 35.81 1.00 54.31 1.00 55.41 1.00 53.37 1.00 56.77 1.00 49.02		иоооиовоои
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2987 2988 2989 2990 2991 2992 2993 2994 2995 2996	CA C O CB OG N CA C	SER B SER B SER B SER B SER B SER B SER B SER B SER B	470 470 470 470 470 471 471 471	13.677 13.409 12.951 15.155 15.760 13.697 13.459 12.028 11.830 13.659	34.082 32.747 31.791 34.311 33.317 32.727 31.548 31.052 29.892 31.871	22.669 23.368 22.750 22.434 21.622 24.670 25.484 25.311 24.970 26.972	1.00 46.55 1.00 43.33 1.00 43.16 1.00 47.34 1.00 44.03 1.00 43.18 1.00 47.51 1.00 48.84 1.00 49.05 1.00 50.06		0000000000

ATOM 3000 C ARG B 472 9.241 31.130 23.951 1. ATOM 3001 O ARG B 472 8.406 30.234 23.746 1. ATOM 3002 CB ARG B 472 8.682 32.409 26.092 1. ATOM 3003 CG ARG B 472 8.701 33.858 25.712 1. ATOM 3004 CD ARG B 472 7.696 34.185 24.628 1. ATOM 3005 NE ARG B 472 8.310 34.518 23.345 1.	00 53.12 00 47.16 00 45.19 00 59.26 00 66.84 00 72.82 00 75.75 00 78.82 00 78.17 00 79.34
ATOM 3001 O ARG B 472 8.406 30.234 23.746 1. ATOM 3002 CB ARG B 472 8.682 32.409 26.092 1. ATOM 3003 CG ARG B 472 8.701 33.858 25.712 1. ATOM 3004 CD ARG B 472 7.696 34.185 24.628 1. ATOM 3005 NE ARG B 472 8.310 34.518 23.345 1.	00 45.19 00 59.26 00 66.84 00 72.82 00 75.75 00 78.82 00 78.17
ATOM 3002 CB ARG B 472 8.682 32.409 26.092 1. ATOM 3003 CG ARG B 472 8.701 33.858 25.712 1. ATOM 3004 CD ARG B 472 7.696 34.185 24.628 1. ATOM 3005 NE ARG B 472 8.310 34.518 23.345 1.	00 59.26 00 66.84 00 72.82 00 75.75 00 78.82 00 78.17
ATOM 3003 CG ARG B 472 8.701 33.858 25.712 1. ATOM 3004 CD ARG B 472 7.696 34.185 24.628 1. ATOM 3005 NE ARG B 472 8.310 34.518 23.345 1.	00 66.84 00 72.82 00 75.75 00 78.82 00 78.17
ATOM 3005 NE ARG B 472 8.310 34.518 23.345 1.	00 75.75 00 78.82 00 78.17
	00 78.82 00 78.17
AMON 3006 OF AND D 450	00 78.17
ATOM 3008 NH2 ARG B 472 8.489 35.858 21.486 1.	
ATOM 3009 N LYS B 473 9.839 31.689 22.926 1.	00 44.86
ATOM 3010 CA LYS B 473 9.671 31.416 21.515 1.	00 46.23
	00 42.00
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00 35.23 00 51.12
	00 57.47
ATOM 3015 CD LYS B 473 9.654 32.805 18.340 1.	00 62.58
	00 65.78
	00 69.85
	00 42.37 00 36.73
	00 38.16
	00 31.82
	00 36.66
	00 36.07 00 28.80
	00 29.09
ATOM 3026 N ALA B 475 10.549 27.399 23.382 1.	00 37.80
	00 35.34
	00 31.75
	00 35.23 00 37.48
	00 30.35
ATOM 3032 CA HIS B 476 6.768 27.338 21.678 1.	00 32.13
	00 34.39
	00 29.76 00 39.31
	00 39.31
ATOM 3037 ND1 HIS B 476 3.911 28.701 20.707 1.	00 42.30
	00 44.66
	00 45.07
	00 43.00 00 31.57
11.5	00 30.52
	00 27.67
	00 29.59
	00 30.28 00 34.16
ATOM 3047 CD1 LEU B 477 9.468 25.609 15.578 1.0	
ATOM 3048 CD2 LEU B 477 11.599 26.793 16.232 1.0	
	00 25.22
ATOM 3050 CA LEU B 478 9.472 22.833 20.362 1.0 ATOM 3051 C LEU B 478 8.133 22.133 20.616 1.0	00 27.05 00 30.54
ATOM 3052 O LEU B 478 7.877 20.992 20.196 1.0	
ATOM 3053 CB LEU B 478 10.299 22.798 21.639 1.0	00 30.69
ATOM 3054 CG LEU B 478 10.473 21.437 22.277 1.0	
ATOM 3055 CD1 LEU B 478 10.964 20.403 21.245 1.0 ATOM 3056 CD2 LEU B 478 11.476 21.530 23.401 1.0	
ATOM 3057 N ASN B 479 7.226 22.877 21.250 1.0	
ATOM 3058 CA ASN B 479 5.867 22.367 21.472 1.0	00 30.21
ATOM 3059 C ASN B 479 5.180 22.087 20.143 1.0	
ATOM 3060 O ASN B 479 4.440 21.106 20.025 1.0 ATOM 3061 CB ASN B 479 5.035 23.378 22.286 1.0	
ATOM 3062 CG ASN B 479 5.534 23.365 23.736 1.0	
ATOM 3063 OD1 ASN B 479 5.903 22.336 24.293 1.0	
ATOM 3064 ND2 ASN B 479 5.552 24.558 24.327 1.0	00 44.28
ATOM 3065 N ALA B 480 5.386 22.898 19.115 1.0 ATOM 3066 CA ALA B 480 4.786 22.735 17.811 1.0	
ATOM 3067 C ALA B 480 4.766 22.735 17.811 1.0	
ATOM 3068 O ALA B 480 4.627 20.763 16.535 1.0	00 20.82
ATOM 3069 CB ALA B 480 5.088 23.971 16.948 1.0	
ATOM 3070 N VAL B 481 6.694 21.289 17.289 1.0 ATOM 3071 CA VAL B 481 7.239 20.054 16.694 1.0	
	00 16.82
	00 22.41

ATOM 3142 CA ALA B 490 -2.070 9.508 14.629 1.00 27.84 ATOM 3143 C ALA B 490 -2.537 9.090 13.265 1.00 34.80 ATOM 3144 O ALA B 490 -3.547 8.355 13.114 1.00 31.94 ATOM 3145 CB ALA B 490 -2.880 10.619 15.276 1.00 28.91	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4556789012345678901234567890123456789012345678901 333333333333333333333333333333333333	OD2 N CA C O CB C CD 12 N CA C O CB CD 12 N CA C CD	VTHTTTTTTTTAAAAAAAAAAAAAAAALLLLLLLLLLLLL	44444444444444444444444444444444444444	8.755066666666666666666666666666666666666	208.208.208.208.208.208.208.208.208.208.	166.17386 18.77864 18.77864 18.789420 21.3816.0970 218.83011 19.54351 18.77511 218.83011 19.54351 10.6081 10.	1.00 32.52 1.00 37.87 1.00 36.54 1.00 23.83 1.00 21.03 1.00 25.72 1.00 24.64 1.00 26.89 1.00 24.58 1.00 23.13 1.00 22.06 1.00 24.99 1.00 24.99 1.00 22.32 1.00 22.95 1.00 20.14
ATOM 3146 N LYS B 491 -1.803 9.380 12.183 1.00 32.12	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3136 3137 3138 3139 3140 3141 3142 3143 3144 3145	O CB CG1 CG2 CD1 N CA C O CB	ILE B ILE B ILE B ILE B ALA B ALA B ALA B ALA B ALA B	489 489 489 489 490 490 490	-0.098 2.177 3.734 1.641 4.210 -0.617 -2.070 -2.537 -3.547 -2.880	7.719 9.090 9.132 7.941 9.443 9.831 9.508 9.090 8.355 10.619	14.264 16.134 16.232 16.945 17.653 14.685 14.629 13.265 13.114 15.276	1.00 24.99 1.00 26.08 1.00 22.32 1.00 20.14 1.00 27.34 1.00 27.84 1.00 34.80 1.00 31.94 1.00 28.91

ATOM	3151	CG	LYS B 4	91 –0.	239	9.800	9.522	1.00 48.41
MOTA	3152	CD	LYS B 4	91 0.	171	11.178	8.977	1.00 49.59
ATOM ATOM	3153 3154	CE NZ	LYS B 4			11.102 12.384	7.466 6.856	1.00 53.70 1.00 55.43
ATOM	3155	N	SER B 4		400	6.696	11.641	1.00 33.43
ATOM	3156	CA	SER B 4	92 -1.	127	5.277	11.504	1.00 33.42
ATOM	3157	C	SER B 4		366	4.456	11.835	1.00 28.23
ATOM ATOM	3158 3159	O , CB	SER B 4:		385 031	3.255 4.797	11.573 12.387	1.00 32.62 1.00 34.07
MOTA	3160	OG	SER B 4		338	4.812	13.756	1.00 35.52
ATOM	3161	N	GLY B 4		393	5.001	12.462	1.00 28.90
ATOM	3162	CA	GLY B 4		592	4.264	12.783	1.00 26.51
ATOM ATOM	3163 3164	C O	GLY B 4:		559 500	3.393 2.653	14.015 14.347	1.00 31.70 1.00 29.72
ATOM	3165	N	ILE B 4		498	3.487	14.799	1.00 30.49
ATOM	3166	CA	ILE B 4		394	2.642	16.006	1.00 26.38
MOTA MOTA	3167 3168	C O	ILE B 4:		220 643	3.249 4.399	17.111 16.977	1.00 26.60 1.00 25.72
ATOM	3169	СВ	ILE B 4		928	2.494	16.410	1.00 29.64
ATOM	3170	CG1	ILE B 4	94 -1.	316	3.881	16.709	1.00 32.50
ATOM	3171	CG2	ILE B 4		153	1.759	15.340	1.00 29.24
MOTA MOTA	3172 3173	CD1 N	ILE B 49		167 533	3.779 2.484	17.077 18.155	1.00 31.75 1.00 22.01
ATOM	3174	ÇA	SER B 49	95 -5.	322	2.960	19.268	1.00 28.60
ATOM	3175	C	SER B 4		645	4.105	19.992	1.00 29.65
ATOM ATOM	3176 3177	O CB	SER B 49		426 519	4.270 1.793	19.872 20.264	1.00 29.51 1.00 28.32
ATOM	3178	OG	SER B 4		309	1.556	20.204	1.00 28.32
ATOM	3179	N	SER B 49	96 -5.	405	4.827	20.815	1.00 28.42
MOTA	3180	CA	SER B 45		872	5.920	21.606	1.00 33.49
ATOM ATOM	3181 3182	C 0	SER B 49		787 732	5.454 6.047	22.560 22.697	1.00 31.99 1.00 28.33
ATOM	3183	СB	SER B 45	96 -6.	020	6.601	22.387	1.00 33.83
ATOM	3184	OG	SER B 4		368	7.596	23.174	1.00 42.49
MOTA MOTA	3185 3186	N CA	GLN B 49		967 957	4.275 3.707	23.178 24.062	1.00 32.91 1.00 33.88
ATOM	3187	C	GLN B 4		693	3.419	23.254	1.00 33.88
ATOM	3188	Ō	GLN B 49	97 -0.	586	3.672	23.743	1.00 30.75
ATOM	3189	CB	GLN B 49		435	2.402	24.699	1.00 36.61
ATOM ATOM	3190 3191	CG CD	GLN B 49		540 413	1.791 0.910	25.748 25.284	1.00 37.77 1.00 44.35
ATOM	3192	OE1			374	0.429	24.150	1.00 47.20
ATOM	3193	NE2			457	0.650	26.172	1.00 46.49
ATOM ATOM	3194 3195	N CA	GLN B 49		822 667	2.882 2.636	22.033 21.202	1.00 27.21 1.00 25.33
ATOM	3196	C	GLN B 49		065	3.975	20.730	1.00 26.83
ATOM	3197	0	GLN B 49	98 1.	167	3.907	20.578	1.00 26.30
ATOM	3198 3199		GLN B 49		880 241	1.711 0.323	19.998 20.549	1.00 26.86 1.00 27.39
MOTA MOTA	3200	CG CD	GLN B 4			-0.353	21.095	1.00 27.39
ATOM	3201		GLN B 4	98 0.	947 -	-0.562	20.310	1.00 40.62
ATOM	3202		GLN B 49			-0.684	22.379	1.00 36.50
MOTA MOTA	3203 3204	N CA	GLN B 49		885 308	5.011 6.296	20.559 20.125	1.00 24.02 1.00 22.80
ATOM	3205	C	GLN B 4		661	6.807	21.224	1.00 23.57
ATOM	3206	0	GLN B 4		774	7.246	20.920	1.00 23.90
ATOM ATOM	3207 3208	CB CG	GLN B 49		341 178	7.409 7.291	19.895 18.606	1.00 27.44 1.00 32.73
MOTA	3209	CD	GLN B 4		283	8.331	18.529	1.00 37.67
ATOM	3210		GLN B 4		993	8.430	17.520	1.00 39.66
ATOM ATOM	3211 3212	NE2 N	GLN B 49 SER B 50		543 224	9.159 6.765	19.560 22.474	1.00 31.52 1.00 25.59
ATOM	3213	CA	SER B 50		070	7.206	23.598	1.00 25.90
MOTA	3214	С	SER B 50	00 2.	331	6.356	23.682	1.00 25.66
ATOM	3215	O	SER B 50		458	6.835	23.980 24.907	1.00 22.82 1.00 31.89
ATOM ATOM	3216 3217	CB OG	SER B 50		290 676	7.061 8.089	25.040	1.00 31.89
MOTA	3218	N	MET B 50	01 2.	167	5.048	23.514	1.00 25.69
MOTA	3219	CA	MET B 50		318	4.143	23.623	1.00 29.93
MOTA MOTA	3220 3221	C O	MET B 50		360 594	4.391 4.357	22.538 22.766	1.00 28.16 1.00 23.35
MOTA	3222	СВ	MET B 5	01 2.	839	2.679	23.583	1.00 34.14
ATOM	3223	CG	MET B 50		352	1.858	24.760	1.00 51.81
ATOM ATOM	3224 3225	SD CE	MET B 50		295 301	1.977 3.688	26.203 26.660	1.00 55.56 1.00 59.00
ATOM	3225	N	ARG B 50	02 3.	870	4.712	21.323	1.00 24.75
MOŢA	3227	CA	ARG B 50	02 4.	763	4.948	20.191	1.00 22.72

ATOM	3228	C	ARG B		5.566	6.239	20.402	1.00 20.84
MOTA MOTA	3229 3230	O CB	ARG B ARG B	502 502	6.783 3.997	6.283 5.060	20.126 18.844	1.00 22.79 1.00 21.16
ATOM ATOM	3231 3232	CG CD	-	502 502	4.991 4.395	5.295 5.049	17.692 16.313	1.00 25.92 1.00 28.95
ATOM	3233	NE		502	5.357	5.049	15.238	1.00 28.95 1.00 23.66
ATOM	3234 3235	CZ		502	6.164	4.003	14.897	1.00 27.73
MOTA ATOM	3235	NH1 NH2		502	6.991 6.231	4.154 2.829	13.877 15.534	1.00 22.39 1.00 30.80
ATOM	3237	N		503	4.858	7.238	20.884	1.00 18.40
ATOM ATOM	3238 3239	CA C	LEU B	503	5.532 6.613	8.520 8.261	21.205 22.230	1.00 21.85 1.00 19.31
ATOM	3240	0		503	7.741	8.712	22.132	1.00 19.95
ATOM ATOM	3241 3242	CB CG		503 503	4.485 5.030	9.527 10.914	21.670 22.094	1.00 20.32 1.00 20.86
MOTA	3243	CD1	LEU B	503	5.669	11.650	20.932	1.00 22.23
ATOM ATOM	3244 3245	CD2 N		503 504	3.879 6.243	11.683 7.577	22.701 23.330	1.00 22.73 1.00 20.43
MOTA	3246	CA	ALA B		7.227	7.276	24.372	1.00 23.26
ATOM ATOM	3247 3248	C	ALA B ALA B	504 504	8.379 9.581	6.431 6.708	23.864 24.146	1.00 23.81 1.00 22.74
MOTA	3249	СВ	ALA B	504	6.533	6.501	25.488	1.00 23.86
ATOM ATOM	3250 3251	N CA	ASN B ASN B	505	8.159 9.259	5.398 4.578	23.039 22.525	1.00 21.61 1.00 22.57
MOTA	3252	С	ASN B	505	10.180	5.384	21.611	1.00 23.21
ATOM ATOM	3253 3254	O CB	ASN B ASN B	505 505	11.424 8.675	5.219 3.365	21.617 21.765	1.00 22.51 1.00 26.72
ATOM	3255	CG	ASN B	505	8.271	2.267	22.745	1.00 34.58
ATOM ATOM	3256 3257	OD1 ND2		505 505	8.957 7.152	1.971 1.635	23.718 22.496	1.00 40.44 1.00 33.99
MOTA	3258	N	LEU B	506	9.602	6.259	20.763	1.00 21.36
ATOM ATOM	3259 3260	CA C	LEU B	506 506	10.482 11.320	7.053 8.013	19.905 20.744	1.00 22.31 1.00 24.19
MOTA	3261	0	LEU B	506	12.515	8.189	20.538	1.00 23.77
ATOM ATOM	3262 3263	CB CG	LEU B LEU B		9.658 8.871	7.870 7.129	18.898 17.827	1.00 22.24 1.00 29.50
MOTA	3264	CD1	LEU B	506	8.068	8.166	17.036	1.00 33.79
MOTA MOTA	3265 3266	CD2 N	LEU B		9.791 10.696	6.332 8.705	16.912 21.701	1.00 33.24 1.00 21.63
MOTA	3267	CA	LEU B	507	11.471	9.694	22.481	1.00 25.03,
MOTA MOTA	3268 3269	CO		507 507	12.444 13.501	8.987 9.548	23.394 23.706	1.00 23.77 1.00 26.25
MOTA	3270	CB	LEU B	507	10.515	10.633	23.232	1.00 27.26
MOTA MOTA	3271 3272	CG CD1		507 507	9.592 8.764	11.371 12.382	22.233 22.956	1.00 29.67 1.00 29.27
MOTA	3273	CD2	LEU B	507	10.372	12.022	21.097	1.00 31.99
MOTA MOTA	3274 3275	N CA	MET B		12.112 13.132	7.773 7.080	23.844 24.650	1.00 20.83 1.00 23.78
MOTA	3276	С	MET B	508	14.390	6.726	23.848	1.00 29.09
ATOM ATOM	3277 3278	O CB		508 508	15.492 12.571	6.803 5.805	24.405 25.289	1.00 28.80 1.00 26.91
ATOM	3279	CG	MET B	508	11.841	6.133	26.601	1.00 30.84
ATOM ATOM	3280 3281	SD CE	MET B	508	11.468 10.343	4.560 3.845	27.450 26.243	1.00 29.95 1.00 29.84
ATOM	3282	N	LEU B		14.305	6.477	22.553	1.00 27.99 1.00 29.96
MOTA MOTA	3283 3284	CA C	LEU B LEU B	509 509	15.424 16.285	6.228 7.458	21.679 21.470	1.00 29.96 1.00 30.52
ATOM	3285 3286	O	LEU B		17.483	7.306	21.166	1.00 27.74 1.00 32.48
MOTA MOTA	3287	CB CG	LEU B		14.974 14.638	5.669 4.173	20.307 20.309	1.00 32.48 1.00 33.77
MOTA	3288 3289		LEU B LEU B		14.129 15.854	3.823 3.403	18.931 20.830	1.00 34.29 1.00 37.61
MOTA MOTA	3290	N N	LEU B		15.836	8.680	21.726	1.00 37.01
ATOM	3291 3292	CA C	LEU B LEU B		16.544 17.718	9.917	21.631 22.640	1.00 29.83 1.00 27.70
MOTA MOTA	3293	0	LEU B	510	18.780	9.962 10.574	22.463	1.00 25.15
ATOM ATOM	3294 3295	CB CG	LEU B	510 510	15.679 14.737	11.127 11.758	21.928 20.914	1.00 37.31 1.00 43.51
ATOM	3296		LEU B		13.671	12.521	21.714	1.00 47.22
ATOM ATOM	3297 3298	CD2	LEU B SER B		15.336 17.483	12.812 9.251	20.015 23.788	1.00 39.00 1.00 25.53
ATOM	3299	CA	SER B	511	18.540	9.158	24.767	1.00 22.45
MOTA MOTA	3300 3301	C O	SER B SER B	511 511	19.689 20.855	8.297 8.465	24.204 24.528	1.00 16.69 1.00 21.23
MOTA	3302	CB	SER B	511	18.121	8.283	25.975	1.00 25.55
MOTA MOTA	3303 3304	OG N	SER B HIS B		19.264 19.300	8.432 7.293	26.827 23.385	1.00 37.78 1.00 18.67

MOTA	3305	CA	HIS B 512	20.289	6.421	22.761	1.00 20.94
MOTA	3306	C	HIS B 512	21.052	7.157	21.630	1.00 24.96
ATOM	3307	O	HIS B 512	22.260	6.952	21.469	1.00 17.72
ATOM	3308	CB	HIS B 512	19.656	5.159	22.182	1.00 21.42
ATOM	3309	CG	HIS B 512	18.936	4.371	23.266	1.00 26.29
MOTA	3310	ND1	HIS B 512	19.329	3.065	23.351	1.00 36.40
MOTA	3311	CD2	HIS B 512	17.948	4.525	24.167	1.00 31.77
MOTA ATOM	3312 3313 3314	CE1 NE2 N	HIS B 512	18.647 17.777 20.370	2.497	24.304 24.816 20.952	1.00 33.28 1.00 28.54
ATOM ATOM ATOM	3315 3316	CA C	VAL B 513 VAL B 513 VAL B 513	21.080 22.010	8.113 8.894 9.865	19.944 20.659	1.00 22.54 1.00 23.43 1.00 25.90
ATOM	3317	O	VAL B 513	23.177	10.063	20.292	1.00 19.83
ATOM	3318	CB	VAL B 513	20.108	9.616	18.990	1.00 23.47
ATOM	3319	CG1	VAL B 513	20.981	10.300	17.923	1.00 24.99
ATOM	3320	CG2	VAL B 513	19.093	8.646	18.398	1.00 22.87
ATOM	3321	N	ARG B 514	21.601	10.431	21.820	1.00 20.20
ATOM	3322	CA	ARG B 514	22.454	11.311	22.586	1.00 19.38
ATOM	3323	C	ARG B 514	23.722	10.555	23.082	1.00 20.72
ATOM	3324	O	ARG B 514	24.780	11.111	23.070	1.00 19.22
ATOM	3325	CB	ARG B 514	21.775	11.826	23.891	1.00 20.64
ATOM	3326	CG	ARG B 514	22.723	12.689	24.724	1.00 25.83
MOTA	3327	CD	ARG B 514	23.204	13.947	24.011	1.00 35.37
MOTA	3328	NE	ARG B 514	22.455	15.060	24.415	1.00 43.69
ATOM	3329	CZ		21.394	15.577	24.923	1.00 51.47
ATOM	3330	NH1		20.304	15.017	25.392	1.00 60.27
ATOM	3331	NH2		21.323	16.891	25.016	1.00 57.39
MOTA	3332	N	HIS B 515	23.484	9.350	23.563	1.00 17.72
MOTA	3333	CA	HIS B 515	24.641	8.527	24.041	1.00 19.41
ATOM	3334	C	HIS B 515	25.609	8.235	22.923	1.00 17.42
ATOM	3335	O	HIS B 515	26.833	8.352	23.105	1.00 18.81
ATOM	3336	CB	HIS B 515	23.964	7.245	24.547	1.00 19.53
ATOM	3337	CG	HIS B 515	24.967	6.484	25.347	1.00 24.48
ATOM	3338	ND1	HIS B 515	25.814	5.598	24.711	1.00 39.46
ATOM	3339	CD2		25.237	6.457	26.665	1.00 28.08
ATOM	3340	CE1		26.596	5.036	25.611	1.00 33.92
ATOM	3341	NE2		26.258	5.525	26.792	1.00 34.27
MOTA	3342	N	ALA B 516	25.130	7.970	21.699	1.00 19.19
MOTA	3343	CA	ALA B 516	26.082	7.720	20.593	1.00 15.11
ATOM	3344	C	ALA B 516	26.867	8.947	20.257	1.00 16.34
ATOM	3345	O	ALA B 516	28.068	8.937	19.968	1.00 17.56
ATOM	3346	CB	ALA B 516	25.327	7.177	19.359	1.00 17.83
ATOM	3347	N	SER B 517	26.166	10.096	20.266	1.00 15.85
ATOM	3348	CA	SER B 517	26.891		19.977	1.00 15.27
ATOM	3349	C	SER B 517	27.920	11.649	21.051	1.00 18.02
ATOM	3350	O	SER B 517	29.050	12.088	20.754	1.00 17.13
ATOM	3351	CB	SER B 517	25.838	12.475	19.866	1.00 18.28
ATOM	3352	OG	SER B 517	25.189	12.747	21.054	1.00 29.75
ATOM	3353	N	ASN B 518	27.604		22.326	1.00 14.32
ATOM	3354	CA	ASN B 518	28.587	11.664	23.377	1.00 14.12
ATOM	3355	C	ASN B 518	29.805	10.730	23.197	1.00 15.89
ATOM	3356	O	ASN B 518	30.927	11.214	23.310	1.00 18.55
ATOM ATOM	3357 3358	CB CG	ASN B 518 ASN B 518 ASN B 518	27.901 26.965 27.007	11.353 12.556 13.650	24.713 25.079 24.599	1.00 18.47 1.00 23.21 1.00 33.02
MOTA MOTA MOTA	3359 3360 3361		ASN B 518 LYS B 519	26.100 29.461	12.019 9.465	25.959 22.896	1.00 24.38 1.00 16.87
ATOM	3362	CA	LYS B 519	30.631	8.547	22.734	1.00 20.10
ATOM	3363	C	LYS B 519	31.444	8.876	21.488	1.00 23.76
ATOM	3364	O	LYS B 519	32.691	8.723	21.474	1.00 16.66
ATOM	3365	CB	LYS B 519	30.172	7.094	22.727	1.00 18.89
ATOM	3366	CG	LYS B 519	29.394	6.586	23.923	1.00 31.80
ATOM	3367	CD	LYS B 519	29.724	7.102	25.286	1.00 43.98
ATOM	3368	CE	LYS B 519	31.035	6.723	25.916	1.00 48.07
ATOM	3369	NZ	LYS B 519	31.007	5.403	26.621	1.00 54.91
ATOM	3370	N	GLY B 520	30.769	9.348	20.435	1.00 19.42
ATOM	3371	CA	GLY B 520	31.438	9.749	19.198	1.00 18.51
ATOM ATOM ATOM	3372 3373 3374	О О	GLY B 520 GLY B 520 MET B 521	32.290 33.426 31.831	10.965 11.046 11.961	19.436 18.973 20.208	1.00 19.23 1.00 18.96 1.00 16.60
ATOM ATOM	3375 3376 3377	CA C	MET B 521 MET B 521 MET B 521	32.612 33.820 34.905	13.162 12.807 13.329	20.468 21.339 21.135	1.00 19.17 1.00 21.93 1.00 20.60
ATOM ATOM ATOM	3378 3379	O CB CG	MET B 521 MET B 521	31.747 30.607	14.198 14.758	21.220 20.381	1.00 21.74 1.00 24.15
MOTA	3380	SD	MET B 521	31.265	15.823	19.049	1.00 26.04
MOTA	3381	CE	MET B 521	31.488	17.298	20.088	1.00 30.44

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2338856789012333333333333333333333333333333333333	CD2 CE1 NE2 N CA C CB CCB CCD1 CD2 N CA C O CB CCB CCD1 CD2 N CA C C CB CCB CCD1 CD2 N CA	GLU B 522 HIS B 523 HIS B 524 LEU B 525	34.77 35.88 37.08 34.25 35.33 34.97 35.41 36.31 37.01 38.22 35.54 36.67 37.55 37.93 36.97 37.99 39.10 35.86 37.99 39.10 35.86 37.99 39.10 35.86 37.99 39.10 35.86 37.99 39.10 35.86 37.99 39.10 35.86 37.99 39.88 41.03 38.02 38.94 39.69 40.83	11.484 10.863 11.164 10.423 10.077 8.929 10.365 10.365 10.328 7.365 10.328 7.548 7.548 7.548 7.523 11.326 12.338 13.454 13.454 13.454 13.454 13.454 13.454 13.454 13.454 13.454 13.454 13.454 13.454 14.651 15.434 16.654 17.436 16.654 17.654 17.654 18.654 19.366 10.365 10.3	22.282 23.122 22.260 22.437 24.133 25.124 26.032 25.821 26.946 21.391 19.575 18.389 16.708 18.097 17.708 18.097 17.556 18.097 17.556 16.323 20.321 20.826 21.357 20.321 20	1.00 20.10 1.00 25.43 1.00 26.45 1.00 23.05 1.00 21.69 1.00 27.73 1.00 31.13 1.00 29.63 1.00 20.32 1.00 20.93 1.00 23.10 1.00 23.46 1.00 27.67 1.00 2	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3409 3410 3411 3412 3413 3415 3416 3417 3422 3422 3422 3422 3422 3422 3422 342	N CA C O CB CG OD1 NCA C O CB CG SD	LEU B 525 ASN B 526 ASN B 527 MET B 527	37.635 38.625 39.888 41.035 38.942 39.578 38.141 39.638 41.638 42.886 40.331 39.994 40.551 39.088 41.708 42.488 43.626 40.715 40.775 41.342	13.523 14.289 13.413 13.864 14.641 15.434 16.654 15.921 11.236 11.161 11.140 9.881 9.832 10.585 8.933 11.198 11.174 12.425 10.916 9.529 8.219	20.113 20.896 21.066 20.924 22.256 23.191 22.575 24.409 21.401 21.523 20.265 21.996 23.482 24.281 23.839 19.057 17.769 17.769 17.537 17.038 16.641 16.527 16.443	1.00 20.25 1.00 25.69 1.00 24.56 1.00 25.34 1.00 25.59 1.00 28.37 1.00 33.64 1.00 23.55 1.00 28.62 1.00 29.46 1.00 24.90 1.00 33.77 1.00 34.04 1.00 24.95 1.00 25.60 1.00 25.60 1.00 29.13 1.00 28.30 1.00 29.30 1.00 29.30	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3433 3433 3433 3433 3443 3443 3444 3444 3444 3445 3445 3445 3455 3455 3455 3455 3455 3455 3455	CE N C C C C C C C C N C C C C C C C C C C	MET B 527 LYS B 528 LYS B 529 CYS B 530 LYS B 530	41.422 41.987 42.703 43.026 41.733 43.113 43.464 43.763 43.763 43.763 44.201 47.942 45.614 47.942 45.614 47.942 45.421 46.310 46.310 46.310 46.310	13.595 14.868 14.849 15.174 16.009 17.831 19.878 14.397 14.307 13.362 13.594 13.981 11.887 11.887 11.204 10.141 8.9061 6.765 5.391 13.118	18.188 17.971 17.880 18.816 18.370 18.234 18.172 19.415 19.289 20.650 20.035 21.042 20.645 21.040 22.433 23.003 19.802 17.944 17.314 18.988 18.632 17.488 17.518 17.528 16.304	1.00 31.91 1.00 23.43 1.00 26.38 1.00 31.70 1.00 29.21 1.00 29.01 1.00 41.62 1.00 47.99 1.00 27.02 1.00 38.86 1.00 30.53 1.00 35.32 1.00 38.75 1.00 28.29 1.00 27.27 1.00 31.67 1.00 31.67 1.00 35.55 1.00 35.55 1.00 35.31 1.00 29.36 1.00 35.31 1.00 35.31 1.00 35.31	

ATOM ATOM ATOM ATOM ATOM	3459 3460 3461 3462 3463	C O CB CG	ASN B 53 ASN B 53 ASN B 53 ASN B 53 ASN B 53	l l l	46.902 47.585 48.889 49.304 49.678	13.034 13.155 13.793 14.743 14.366	15.022 13.991 16.383 17.504 18.623	1.00 31.27 1.00 28.41 1.00 30.45 1.00 39.58 1.00 36.05
ATOM ATOM	3464 3465		ASN B 53 VAL B 53	1	49.187 45.734	16.044 12.377	17.258 15.020	1.00 35.04 1.00 28.01
ATOM ATOM	3466 3467	CA C	VAL B 53 VAL B 53	2	45.186 44.368	11.714	13.840 13.009	1.00 29.98 1.00 30.41
ATOM ATOM	3468 3469	O CB	VAL B 53 VAL B 53	2	44.263 44.390	12.574 10.454	11.785 14.257	1.00 28.60 1.00 29.00
MOTA MOTA	3470 3471	CG1	VAL B 53 VAL B 53	2	43.649 45.415	9.804 9.473	13.088 14.831	1.00 28.46 1.00 30.80
ATOM ATOM	3472 3473	N CA	VAL B 53 VAL B 53	3	43.672 42.933	13.600 14.676	13.685 13.079	1.00 25.44 1.00 27.02
ATOM ATOM	3474 3475	C	VAL B 53 VAL B 53		43.376 43.700	15.979 16.066	13.765 14.956	1.00 25.40 1.00 29.36
MOTA MOTA	3476 3477		VAL B 53 VAL B 53	3	41.397 40.874	14.535 13.320	13.241 12.485	1.00 24.66 1.00 26.45
MOTA MOTA	3478 3479	N	VAL B 53 PRO B 53	1	41.011 43.251	14.527 17.087	14.699 13.047	1.00 23.82 1.00 27.85
ATOM ATOM	3480 3481	CA C	PRO B 53 PRO B 53	1	43.681 42.778	18.366 19.000	13.555 14.583	1.00 32.15 1.00 30.18
ATOM ATOM	3482 3483	O CB	PRO B 53 PRO B 53	1	43.262	19.800 19.283	15.358 12.316	1.00 30.62 1.00 32.15
ATOM ATOM	3484 3485	CG CD	PRO B 53 PRO B 53	1	42.778 42.893	18.627 17.136	11.320 11.607 14.472	1.00 29.14 1.00 29.21
ATOM ATOM	3486 3487 3488	N CA	VAL B 53 VAL B 53 VAL B 53	5	41.445 40.597 39.468	18.825 19.521 18.630	15.441 15.932	1.00 28.17 1.00 32.07 1.00 30.10
ATOM ATOM ATOM	3489 3490	C O CB	VAL B 53 VAL B 53	5	39.126 39.999	17.651 20.809	15.295 14.832	1.00 30.10 1.00 26.97 1.00 34.84
ATOM ATOM	3491 3492	CG1	VAL B 53 VAL B 53	5	41.032 39.255	21.890	14.529 13.572	1.00 36.98 1.00 31.81
ATOM ATOM	3493 3494	N CA	TYR B 53 TYR B 53	5	38.831 37.724	19.062 18.337	17.003 17.616	1.00 30.00
ATOM ATOM	3495 3496	C O	TYR B 53 TYR B 53	5	36.376 35.403	18.981 18.246	17.329 17.047	1.00 29.31 1.00 27.74
MOTA MOTA	3497 3498	CB CG	TYR B 53 TYR B 53		38.008 36.918	18.489 18.169	19.142 20.108	1.00 34.32 1.00 35.17
ATOM ATOM	3499 3500	CD2	TYR B 53 TYR B 53	5	36.298 36.522	16.928 19.088	20.114 21.077	1.00 37.04 1.00 36.24
ATOM ATOM	3501 3502	CE2	TYR B 53 TYR B 53	5	35.305 35.542	16.590 18.775	21.015 22.004	1.00 35.06 1.00 38.43
ATOM ATOM	3503 3504	CZ OH	TYR B 53 TYR B 53	5	34.948 33.966	17.524	21.970 22.897	1.00 42.22 1.00 43.09
ATOM ATOM	3505 3506	N CA	ASP B 53 ASP B 53	7	36.287 35.014	20.310	17.501 17.261	1.00 27.59 1.00 26.75
MOTA MOTA MOTA	3507 3508 3509	C O	ASP B 53 ASP B 53 ASP B 53	7	34.844 35.245 34.935	22.251 22.260	15.770 15.172 18.124	1.00 21.54 1.00 25.75 1.00 34.07
ATOM ATOM ATOM	3510 3511	CB CG	ASP B 53 ASP B 53	7	33.646 32.819	23.015 22.699	17.986 17.100	1.00 34.07 1.00 37.10 1.00 31.06
ATOM ATOM	3512 3513		ASP B 53 LEU B 53	7	33.377 34.176	23.965	18.764 15.097	1.00 41.65 1.00 21.88
ATOM ATOM	3514 3515	CA C	LEU B 53 LEU B 53	3	33.969 33.040	20.358	13.658 13.255	1.00 19.71 1.00 22.91
ATOM ATOM	3516 3517	O CB	LEU B 53 LEU B 53	3	33.160 33.492	21.957 19.001	12.131 13.110	1.00 24.45 1.00 18.93
ATOM ATOM	3518 3519	CG CD1	LEU B 53 LEU B 53		34.418 33.920	17.824 16.505	13.459 12.794	1.00 22.91 1.00 20.69
ATOM ATOM	3520 3521	N	LEU B 53 LEU B 53	€	35.853 32.091	18.061 21.876	13.025 14.108	1.00 22.04 1.00 22.95
ATOM ATOM	3522 3523	CA C	LEU B 53 LEU B 53	€	31.189	22.953	13.701 13.686	1.00 21.70 1.00 22.79
ATOM ATOM ATOM	3524 3525 3526	O CB CG	LEU B 53 LEU B 53 LEU B 53	€	31.823 30.050 29.106	24.990 23.045 24.243	12.726 14.708 14.530	1.00 22.25 1.00 21.40 1.00 23.23
ATOM ATOM	3527 3528	CD1	LEU B 53 LEU B 53	€	28.381 28.166	24.140	13.201 15.738	1.00 24.06 1.00 26.44
ATOM ATOM	3529 3530	N CA	LEU B 54 LEU B 54)	32.864 33.708	24.462 25.685	14.686 14.634	1.00 23.27 1.00 28.70
ATOM ATOM	3531 3532	C	LEU B 54 LEU B 54)	34.663 34.834	25.717 26.678	13.455 12.696	1.00 28.37 1.00 27.01
MOTA MOTA	3533 3534	CB	LEU B 54 LEU B 54)	34.507 35.516	25.810 26.965	15.930 16.014	1.00 32.27 1.00 34.48
MOTA	3535	CD1	LEU B 54	J	34.820	28.314	16.024	1.00 36.62

ATOM	3536	CDS	LEU B	540	36.392	26.787	17.238	1.00 33.58
MOTA	3537	N	GLU B	541	35.261	24.554	13.163	1.00 25.90
ATOM ATOM	3538 3539	CA C	GLU B	541	36.110	24.377	12.007	1.00 28.83
ATOM	3540	0	GLU B	541 541	35.353 35.907	24.677 25.264	10.716 9.780	1.00 26.71 1.00 27.58
MOTA	3541	CB	GLU B	541	36.668	22.954	11.942	1.00 31.67
MOTA MOTA	3542 3543	CG CD	GLU B GLU B	541 541	37.586 38.822	22.755 23.628	10.739	1.00 37.81 1.00 42.72
ATOM	3544	OE1	. GLU B	541	39.328	24.080	11.773	1.00 42.72
ATOM ATOM	3545 3546	OE2		541	39.364	23.882	9.619	1.00 49.77
ATOM	3547	N CA	MET B MET B	542 542	34.101 33.361	24.215 24.549	10.582 9.369	1.00 21.11 1.00 21.46
ATOM	3548	C	MET B		33.144	26.074	9.333	1.00 22.23
ATOM ATOM	3549 3550	O CB	MET B	542 542	33.300 32.003	26.628 23.847	8.239 9.390	1.00 25.20 1.00 21.82
ATOM	3551	CG	MET B	542	31.146	23.993	8.154	1.00 27.74
ATOM ATOM	3552 3553	SD CE		542 542	30.138 29.030	25.489 25.202	8.182 9.538	1.00 24.48 1.00 23.74
ATOM	3554	N		543	32.654	26.637	10.427	1.00 23.74 1.00 25.07
MOTA	3555	CA		543	32.384	28.096	10.400	1.00 32.44
ATOM ATOM	3556 3557	C		543 543	33.648 33.626	28.931 29.919	10.186 9.434	1.00 32.47 1.00 39.36
MOTA	3558	CB	LEU B	543	31.756	28.506	11.736	1.00 28.21
ATOM ATOM	3559 3560	CG CD1		543 543	30.295 29.856	28.017 28.264	11.868 13.307	1.00 27.82 1.00 30.68
ATOM	3561	CD2	LEU B	543	29.426	28.759	10.866	1.00 30.00
ATOM ATOM	3562 3563	N CA		544 544	34.734 36.008	28.558	10.811 10.626	1.00 33.87
ATOM	3564	CA		544	36.436	29.257 29.221	9.162	1.00 39.63 1.00 41.53
ATOM	3565	0		544	36.977	30.193	8.636	1.00 42.20
ATOM ATOM	3566 3567	CB CG		544 544	37.102 37.112	28.607 28.924	11.477 12.951	1.00 36.92 1.00 39.12
ATOM	3568	OD1	ASN B	544	37.757	28.217	13.756	1.00 37.46
ATOM ATOM	3569 3570	ND2 N		544 545	36.493 36.256	29.972 28.101	13.428 8.473	1.00 29.53 1.00 40.06
ATOM	3571	CA		545	36.666	27.896	7.108	1.00 40.00
ATOM ATOM	3572 3573	C O		545 · 545	35.732	28.432	6.039	1.00 39.87
ATOM	3574	СВ		545	36.193 36.819	28.906 26.376	4.998 6.841	1.00 40.21 1.00 33.40
ATOM	3575	N		546	34.431	28.411	6.293	1.00 36.60
ATOM ATOM	3576 3577	CA C		546 546	33.480 33.205	28.821 30.297	5.244 5.338	1.00 38.90 1.00 39.14
ATOM	3578	0	HIS B	546	33.394	30.906	6.385	1.00 43.73
ATOM ATOM	3579 3580	CB CG		546 546	32.268 32.547	27.883 26.471	5.289 4.852	1.00 37.08 1.00 36.68
ATOM	3581	ND1	HIS B	546	32.182	25.966	3.629	1.00 36.35
ATOM ATOM	3582 3583			546 546	33.186 32.561	25.442 24.716	5.473 3.497	1.00 40.79 1.00 35.39
ATOM	3584		HIS B	546	33.165	24.710	4.640	1.00 38.95
ATOM	3585	N	VAL B		33.003	30.981	4.208	1.00 42.53
MOTA MOTA	3586 3587	CA C	VAL B VAL B	547 547	32.780 31.349	32.419 32.788	4.181 3.798	1.00 40.61 1.00 39.74
ATOM	3588	0	VAL B	547	30.740	32.127	2.957	1.00 46.40
ATOM ATOM	3589 3590	CB CG1	VAL B VAL B		33.726 33.616	33.076 32.422	3.154 1.780	1.00 42.18 1.00 41.34
ATOM	3591	CG2	VAL B	547	33.495	34.575	3.040	1.00 43.99
ATOM ATOM	3592 3593	N CA	LEU B LEU B		30.827 29.489	33.854 34.369	4.375 4.090	1.00 43.11 1.00 43.63
ATOM	3594	С	LEU B	548	29.417	34.918	2.660	1.00 48.73
ATOM ATOM	3595 3596	O CB	LEU B LEU B		30.417 29.044	35.117 35.433	1.969 5.094	1.00 47.22 1.00 42.47
ATOM	3597	CG	LEU B	548	28.696	34.945	6.515	1.00 42.36
ATOM ATOM	3598 3599		LEU B LEU B		28.361 27.522	36.107	7.435 6.526	1.00 39.25
ATOM	3600	N N		549	28.184	33.977 35.165	2.229	1.00 37.00 1.00 53.29
ATOM	3601	CA	ALA B	549	27.801	35.658	0.924	1.00 57.20
ATOM ATOM	3602 3603	С 0	ALA B ALA B		27.755 27.504	37.172 37.897	0.789 1.766	1.00 58.59 1.00 60.47
ATOM	3604	CB	ALA B	549	26.397	35.104	0.615	1.00 58.47
ATOM ATOM	3605 3606	C1 C2	GEN C		32.490 32.091	11.892 10.767	39.227 39.973	1.00 23.90 1.00 23.88
ATOM	3607	C3	GEN C	601	30.791	10.807	40.540	1.00 21.97
ATOM ATOM	3608 3609	C4 C5	GEN C	601 601	29.974 30.407	11.941 13.070	40.273 39.515	1.00 20.22 1.00 22.71
ATOM	3610	C6	GEN C	601	31.687	13.016	38.980	1.00 24.29
MOTA	3611	09		601	30.434	9.701	41.275	1.00 23.58
MOTA	3612	CIO	GEN C	90T	29.135	9.720	41.824	1.00 20.60

ATOM	3613	C11 GEN	601	28.291	10.807	41.674	1.00 18.73
ATOM	3614	C12 GEN (601	28.643	12.006	40.859	1.00 18.14
ATOM ATOM	3615 3616	C14 GEN (26.934 26.998	10.633 10.018	42.366 43.636	1.00 23.96 1.00 19.90
ATOM	3617	C16 GEN		25.776	9.792	44.345	1.00 19.90
ATOM	3618	C17 GEN C		24.614	10.226	43.655	1.00 20.86
ATOM ATOM	3619 3620	C18 GEN (24.573 25.767	10.850 11.099	42.417 41.719	1.00 18.28 1.00 16.50
ATOM	3621	024 GEN (23.370	10.045	44.278	1.00 16.50 1.00 19.59
MOTA	3622	025 GEN (29.585	14.156	39.335	1.00 21.98
ATOM ATOM	3623 3624	026 GEN 0		33.774 27.876	11.844 12.939	38.689 40.682	1.00 20.60
ATOM	3625	C1 GEN I		34.731	10.000	15.313	1.00 19.82 1.00 20.77
ATOM	3626	C2 GEN I		34.440	11.148	14.517	1.00 20.53
ATOM ATOM	3627 3628	C3 GEN I		33.256 32.411	11.061 9.951	13.736 13.824	1.00 22.18
ATOM	3629	C5 GEN I		32.748	8.810	14.669	1.00 17.57 1.00 20.54
ATOM	3630	C6 GEN I		33.914	8.885	15.399	1.00 18.54
ATOM ATOM	3631 3632	O9 GEN I		32.964 31.785	12.148 12.156	12.954 12.179	1.00 21.72
ATOM	3633	C11 GEN I		30.924	11.060	12.179	1.00 21.94 1.00 18.11
MOTA	3634	C12 GEN I		31.189	9.872	13.066	1.00 21.61
ATOM ATOM	3635 3636	C14 GEN I		29.691 29.976	11.207 11.887	11.272 10.015	1.00 17.89
ATOM	3637	C16 GEN I		28.831	12.058	9.180	1.00 17.97 1.00 19.03
ATOM	3638	C17 GEN I	601	27.595	11.594	9.607	1.00 19.16
MOTA MOTA	3639 3640	C18 GEN I	601	27.347	10.930	10.842	1.00 18.76
ATOM	3641	024 GEN I		28.475 26.486	10.743 11.807	11.680 8.806	1.00 18.44 1.00 19.69
MOTA	3642	025 GEN I	601	31.896	7.770	14.659	1.00 23.07
ATOM	3643	026 GEN I		35.877	10.078	16.050	1.00 21.64
ATOM ATOM	3644 3645	O27 GEN DOWN WAT W	1 1	30.419 20.594	8.942 8.842	13.063 43.843	1.00 21.28 1.00 18.37
ATOM	3646	W TAW OWO	2	14.063	18.381	7.933	1.00 21.34
ATOM	3647	OWO WAT W		34.441	20.788	9.936	1.00 22.98
ATOM ATOM	3648 3649	W TAW 0WO		23.692 19.222	13.028 22.147	8.639 42.611	1.00 21.23 1.00 23.71
ATOM	3650	OWO WAT W	6	11.448	4.004	40.415	1.00 23.15
ATOM	3651	W TAW OWO		23.203	15.680	5.742	1.00 23.89
ATOM ATOM	3652 3653	W TAW 0WO		21.871 27.959	14.905 17.792	9.573 18.999	1.00 22.37 1.00 27.12
MOTA	3654	OWO WAT W		11.009	3.171	42.889	1.00 23.32
ATOM	3655	OWO WAT W		14.021	17.668	10.521	1.00 23.54
ATOM ATOM	3656 3657	W TAW 0WO		19.633 21.902	6.095 17.659	46.714 9.044	1.00 24.75 1.00 27.81
MOTA	3658	OWO WAT W	14	18.986	6.850	42.583	1.00 19.48
ATOM ATOM	3659	OWO WAT W		25.651	16.524	19.584	1.00 20.56
ATOM	3660 3661	W TAW OWO		22.299 15.024	-0.256 10.870	9.519 25.417	1.00 29.51 1.00 27.29
ATOM	3662	OWO WAT W	18	23.250	18.239	6.810	1.00 25.22
ATOM ATOM	3663 3664	W TAW 0WO		26.908	4.204	34.548	1.00 24.63
ATOM	3665	OWO WAT W		18.354 19.790	28.175 3.374	4.814 45.626	1.00 33.17 1.00 24.25
ATOM	3666	W TAW 0WO	22	18.007	22.841	3.919	1.00 27.68
ATOM ATOM	3667 3668	OWO WAT W		46.993 2 4 .507	5.908 5.376	9.668 33.461	1.00 26.51 1.00 21.53
ATOM	3669	OWO WAT W		19.262	17.958	8.795	1.00 21.53
ATOM	3670	OWO WAT W		35.957	18.589	9.557	1.00 27.11
ATOM ATOM	3671 3672	OWO WAT W		19.056 13.848	4.126 30.071	43.078 10.671	1.00 24.17 1.00 30.60
ATOM	3673	OWO WAT W		14.277	-1.107	47.634	1.00 30.00
ATOM	3674	OWO WAT W		1.298	10.175	20.241	1.00 23.69
MOTA MOTA	3675 3676	W TAW 0WO		31.050 18.563	8.239 23.370	29.186 40.373	1.00 30.83 1.00 27.01
ATOM	3677	W TAW OWO		20.290	21.874	20.963	1.00 33.27
ATOM	3678	OWO WAT W		17.478	6.072	28.714	1.00 35.57
MOTA ATOM	3679 3680	W TAW 0WO		50.053 20.619	12.647 1.437	12.109 21.138	1.00 37.72 1.00 30.60
ATOM	3681	W TAW OWO	37	21.302	-4.994	47.887	1.00 30.00
ATOM	3682	OWO WAT W		28.170	9.720	-1.849	1.00 32.07
MOTA MOTA	3683 3684	OWO WAT W		31.362 20.546	1.220 22.103	44.700 3.866	1.00 29.94 1.00 28.15
ATOM	3685	OWO WAT W	41	46.350	2.724	9.952	1.00 30.93
ATOM	3686	OWO WAT W		15.588	16.297	49.060	1.00 32.92
ATOM ATOM	3687 3688	W TAW 0WO		39.739 18.564	17.212 13.342	12.409 22.347	1.00 28.98 1.00 27.99
ATOM	3689	OWO WAT W		11.265	-8.394	40.040	1.00 33.13

MOTA	3690	OWO WAT W	46	3.123	12.261	42.568	1.00 28.66
ATOM	3691	OWO WAT W		31.354	13.280	25.163	1.00 28.87
ATOM	3692	OWO WAT W		0.658	11.369		
ATOM						28.091	1.00 31.71
	3693	OWO WAT W		38.712	22.250	18.051	1.00 40.44
ATOM	3694	W TAW OWO		43.645	4.572	40.510	1.00 41.82
ATOM	3695	OWO WAT W		38.532	18.730	10.324	1.00 34.38
MOTA	3696	W TAW 0WO	52	-1.359	10.932	29.947	1.00 31.87
MOTA	3697	OWO WAT W	53	19.994	5.430	2.327	1.00 35.83
ATOM	3698	OWO WAT W	54	50.451	11.840	19.513	1.00 40.45
ATOM	3699	OWO WAT W		3.107	19.354	37.985	1.00 32.85
ATOM	3700	OWO WAT W		32.747	3.464	45.164	
ATOM	3701	OWO WAT W			8.351		
			_	18.054		29.482	1.00 29.81
ATOM	3702	OWO WAT W		23.833	12.539	2.117	1.00 29.50
ATOM	3703	W TAW OWO		36.952	4.680	42.871	1.00 32.99
ATOM	3704	OWO WAT W		13.874	18.788	46.438	1.00 34.68
ATOM	3705	W TAW OWO	61	45.734	2.950	16.128	1.00 34.00
MOTA	3706	W TAW OWO	62	31.298	2.999	-0.169	1.00 32.57
ATOM	3707	W TAW OWO	63	46.735	3.167	23.449	1.00 34.81
ATOM	3708	OWO WAT W	64	5.146	15.414	44.002	1.00 36.81
ATOM	3709	OWO WAT W	65	19.618	9.333	50.357	1.00 37.68
ATOM	3710	OWO WAT W	66	21.594	9.697	48.584	1.00 37.08
ATOM	3711						
		W TAW 0WO	67	20.632	14.698	7.174	1.00 33.83
ATOM	3712	W TAW OWO	68	28.617	19.529	20.885	1.00 33.83
ATOM	3713	W TAW OWO	69	16.831	-0.400	48.082	1.00 29.67
ATOM	3714	W TAW 0WO	70	2.344	21.666	15.297	1.00 25.54
ATOM	3715	W TAW 0WO	71	5.913	26.127	8.045	1.00 33.92
ATOM	3716	OWO WAT W	72	43.476	16.411	46.827	1.00 35.61
ATOM	3717	OWO WAT W	73	40.314	16.049	9.730	1.00 44.75
ATOM	3718	OWO WAT W	74	12.341	2.799	23.103	1.00 35.80
ATOM	3719	OWO WAT W	75	6.274	9.180	6.926	1.00 28.66
ATOM	3720	OWO WAT W	76	27.429	28.031	45.111	
							1.00 37.68
ATOM	3721	OWO WAT W	77	19.214	20.278	31.073	1.00 33.73
ATOM	3722	W TAW OWO	78	27.839	2.397	32.790	1.00 33.02
MOTA	3723	W TAW OWO	79	-2.391	20.534	10.657	1.00 33.99
ATOM	3724	W TAW 0WO	80		6.274	12.553	1.00 34.23
ATOM	3725	W TAW 0WO	81	23.056	16.556	21.213	1.00 35.55
ATOM	3726	W TAW 0WO	82	1.730	19.909	29.262	1.00 29.41
ATOM	3727	W TAW OWO	83	21.402	-15.296	31.401	1.00 37.68
ATOM	3728	W TAW OWO	84	21.577	-1.704	11.851	1.00 29.83
ATOM	3729	OWO WAT W	85	31.911	11.942	53.219	1.00 42.18
ATOM	3730	OWO WAT W	86	-2.039	3.962	30.860	1.00 41.23
ATOM	3731	OWO WAT W	87	28.451	21.819	0.247	1.00 77.26
ATOM	3732	OWO WAT W	88	19.924	25.865	40.473	1.00 31.60
MOTA	3733	W TAW 0WO	89	33.450	7.157	30.384	1.00 39.19
ATOM	3734	W.TAW 0WO	90	52.964	10.366	18.355	1.00 26.42
ATOM	3735	W TAW 0WO	91	16.263	3.694	42.911	1.00 25.64
ATOM	3736	W TAW 0WO	92	18.833	4.410	30.465	1.00 31.34
ATOM	3737	W TAW 0WO	93	28.412	17.068	-2.056	1.00 29.02
ATOM	3738	W TAW 0WO	94	14.490	23.651	24.369	1.00 34.47
ATOM	3739	W TAW 0WO	95	30.926	-4.668	52.419	1.00 46.78
ATOM	3740	OWO WAT W	96	11.689	18.916	27.939	1.00 44.56
ATOM	3741	OWO WAT W	97	30.260	0.786	34.779	1.00 37.00
ATOM	3742	W TAW OWO	98	22.914	-4.010	11.910	1.00 39.16
ATOM	3743	W TAW OWO	99	20.013	15.557	-3.230	1.00 43.89
ATOM	3744	OWO WAT W		27.122	15.082		
						22.406	1.00 38.38
ATOM	3745	OWO WAT W		33.984	6.935	23.167	1.00 31.70
ATOM	3746	W TAW OWO		48.239	10.877	11.122	1.00 39.32
MOTA	3747	W TAW 0WO		39.777	10.123	46.483	1.00 40.48
MOTA	3748	W TAW 0WO		15.913	5.068	4.962	1.00 38.55
ATOM	3749	W TAW 0WO	105	8.813	-9.674	40.078	1.00 53.32
ATOM	3750	W TAW 0WO	106	47.605	16.487	21.063	1.00 40.23
ATOM	3751	W TAW 0WO	107	35.602	3.446	44.927	1.00 39.85
ATOM	3752	OWO WAT W	108	31.129	-6.169	8.662	1.00 41.30
ATOM	3753	W TAW 0WO		11.427	31.547	10.265	1.00 41.49
ATOM	3754	OWO WAT W		14.396	-1.879	26.658	1.00 36.77
ATOM	3755	OWO WAT W		46.762	18.021	19.152	1.00 36.77
		W TAW OWO					
ATOM	3756			43.398	5.319	2.222	1.00 52.48
ATOM	3757	W TAW 0WO		34.516	20.702	2.758	1.00 45.48
ATOM	3758	W TAW 0WO		36.231	-0.262	19.801	1.00 39.23
ATOM	3759	OWO WAT W		36.569	22.976	7.030	1.00 49.73
ATOM	3760	OWO WAT W		22.415	-4.926	4.527	1.00 38.24
ATOM	3761	OWO WAT W		4.372	25.938	10.233	1.00 39.24
ATOM	3762	OWO WAT W	118	52.348	17.172	17.310	1.00 34.24
ATOM	3763	OWO WAT W	119	40.416	21.290	54.111	1.00 49.71
ATOM	3764		120	34.032	14.639	24.790	1.00 40.57
ATOM	3765		121	40.309	20.591	9.258	1.00 42.56
				31.232	12.395	27.555	1.00 44.52
MOTA	3766	W TAW OWO	127				

ATOM	3767	OWO	WAT	W	123		39.795	-0.317	2.652	1.00 44.68
MOTA	3768		WAT				5.610	2.009	11.401	1.00 38.29
ATOM	3769		TAW				7.529	32.075	12.842	1.00 64.16
ATOM	3770		WAT				17.920	15.784	23.067	1.00 43.06
ATOM	3771		WAT				14.136	21.143	25.527	1.00 38.04
ATOM	3772		WAT				38.574	15.873	54.803	1.00 51.81
ATOM	3773 3774		WAT				-4.788	1.197	37.196	1.00 45.96
ATOM ATOM	3775		WAT				17.081	7.172	44.652	1.00 38.01
ATOM	3776		TAW TAW				26.355 29.252	6.784 -12.936	30.899 48.056	1.00 44.15
ATOM	3777		WAT				19.871	11.775	5.475	1.00 35.90 1.00 40.56
ATOM	3778		WAT				36.006	3.305	21.918	1.00 40.56
ATOM	3779		WAT				22.954	-4.481	0.798	1.00 50.80
ATOM	3780		WAT				13.207	-6.171	24.730	1.00 43.42
ATOM	3781		WAT				-3.317	0.489	12.332	1.00 48.64
MOTA	3782	OW0	WAT	W	138		25.629	12.264	4.200	1.00 38.19
ATOM	3783		WAT				23.573	25.238	35.587	1.00 42.16
ATOM	3784		WAT				40.447	10.129	3.302	1.00 34.56
ATOM	3785		WAT				2.625	11.927	45.379	1.00 44.63
ATOM	3786		WAT		142		25.620	18.252	-1.548	1.00 45.28
ATOM	3787 3788		WAT				4.689	19.820	29.824	1.00 39.35
MOTA MOTA	3788 3789		WAT WAT		144		-4.941	21.975	25.303	1.00 58.01
ATOM	3790		WAT		145 146		-0.643 38.573	4.350 1.533	26.309	1.00 54.33
ATOM	3791		WAT				18.132	24.827	1.090 32.593	1.00 44.32 1.00 37.08
ATOM	3792		WAT		148		20.278	25.946	36.703	1.00 37.08
ATOM	3793		WAT		149		-0.072	10.577	25.625	1.00 36.84
ATOM	3794		WAT		150		16.704	-5.369	13.610	1.00 53.67
MOTA	3795		WAT		151		25.510	-2.764	29.701	1.00 34.82
ATOM	3796	OW0	WAT	W	152		4.332	-5.544	25.984	1.00 65.27
ATOM	3797	OWO	WAT	W	153		40.847	21.215	18.492	1.00 42.39
MOTA	3798		WAT		154		16.209	9.997	46.118	1.00 45.45
ATOM	3799		WAT		155		18.045	2.761	4.686	1.00 42.06
ATOM	3800		WAT		156	;	29.533	6.085	29.934	1.00 43.67
ATOM	3801		WAT		157		0.620	22.763	17.036	1.00 43.19
ATOM ATOM	3802 3803		WAT WAT		158		22.171 26.060	14.826	3.381	1.00 39.74
ATOM	3804		WAT		160		45.733	19.294 17.018	54.077 16.481	1.00 46.68 1.00 30.83
ATOM	3805		WAT		161		37.760	10.259	30.385	1.00 30.83
ATOM	3806		WAT				34.451	22.116	34.910	1.00 41.24
MOTA	3807		WAT		163		26.582	17.904	23.043	1.00 40.64
MOTA	3808	OWO	WAT	W	164		42.978	12.211	9.438	1.00 40.50
MOTA	3809	OWO	WAT	W	165	;	34.042	19.067	54.737	1.00 55.40
MOTA	3810		WAT			4	47.826	18.320	16.788	1.00 36.84
ATOM	3811		WAT				2.635	1.607	19.768	1.00 40.36
ATOM	3812		WAT				12.706	15.702	51.168	1.00 53.73
ATOM ATOM	3813		WAT WAT				29.444	-5.469	19.727	1.00 44.18
ATOM	3814 3815		WAT				0.938 1.355	0.074 15.318	33.827 36.571	1.00 39.33
ATOM	3816		WAT				35.733	22.337	38.623	1.00 41.72 1.00 48.99
ATOM	3817		WAT					-16.840	54.098	1.00 48.99
ATOM	3818		WAT				8.180	19.230	41.714	1.00 50.71
ATOM	3819		WAT			:	15.073	10.349	3.405	1.00 41.40
	3820		WAT				18.275	26.866	47.583	1.00 43.95
ATOM	3821	OW0	WAT	W	177		26.149	22.604	52.505	1.00 52.87
MOTA	3822		WAT				36.628	10.191	1.537	1.00 43.41
ATOM	3823		TAW				-0.744	-7.200	35.515	1.00 58.15
ATOM	3824		TAW				LO.690	11.744	47.602	1.00 50.01
ATOM	3825 3826		WAT					-15.330	51.231	1.00 40.75
ATOM ATOM	3826 3827		WAT WAT				27.409 33.387	16.705	57.119 31.663	1.00 47.06
ATOM	3828	OMO	WAT	W	184		31.235	15.056 21.301	19.350	1.00 36.85 1.00 46.04
ATOM	3829		WAT				15.569	30.920	6.508	1.00 46.04
ATOM	3830		WAT				14.227	10.255	22.435	1.00 38.96
ATOM	3831		WAT				-4.537	19.107	8.733	1.00 53.62
ATOM	3832		WAT				34.122	2.662	52.345	1.00 65.45
ATOM	3833	OW0	WAT	W	189	2	28.450	19.016	27.150	1.00 54.11
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